DEPARTMENT OF THE NAVY FY 1999 AMENDED BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES FEBRUARY 1998

PROCUREMENT OF AMMUNITION, NAVY AND MARINE CORPS BUDGET ACTIVITY 1

Department of the Navy

FY 1999 Procurement Program

Exhibit P-1

APPROPRIATION: 1508N Procurement of Ammunition, Navy/Marine Corps DATE: 01/23/98 ______ TOA, \$ IN MILLIONS (DOLLARS) ----- S LINE IDENT QUANTITY COST QUANTITY COST QUANTITY COST C CODE NO ITEM NOMENCLATURE UNIT COST ____ BUDGET ACTIVITY 01: Navy Ammunition Navy Ammunition 1 0145 General Purpose Bombs 25.1 12.5 22.9 U Α 2 0148 JDAM 46,061 668 28.6 898 41.4 U 3 0150 2.75 Inch Rockets 8.9 15.5 16.1 U 4 0155 Machine Gun Ammunition 5.2 9.4 8.8 U 5 0160 Practice Bombs 9.3 50.6 40.1 U Α 6 0180 Cartridges & Cart Actuated Devices 20.6 23.8 26.0 U 7 0181 Aircraft Escape Rockets Α 8.0 8.3 10.4 U 8 0182 Air Expendable Countermeasures Α 20.4 22.2 29.1 U 9 0184 Marine Location Markers 1.4 U Α . 4 .6 10 0194 JATOS 5.4 4.4 3.9 U Α 11 0250 5 Inch/54 Gun Ammunition Α 15.7 49.1 21.9 U 12 0253 Extended Range Guided Munitions (ERGM) 27.5 U В 13 0260 CIWS Ammunition Α . 5 .7 U 14 0265 76mm Gun Ammunition 2.7 3.4 Α 3.8 U 15 0270 Other Ship Gun Ammunition 4.0 4.4 4.5 U Α 16 0335 Small Arms & Landing Party Ammo Α 3.1 7.6 7.8 U 17 0340 Pyrotechnic and Demolition Α 9.9 10.0 8.9 U 18 0350 Mine Neutralization Devices 5.7 6.2 7.9 U 19 0370 Cancelled Account Adjustments (87) – U TOTAL Navy Ammunition 144.5 257.0 282.9

* ITEMS UNDER \$50,000

Department of the Navy

FY 1999 Procurement Program - Reserve Component

Exhibit P-1R

APPROPRIATION: 1508N Procurement of Ammunition, Navy/Marine Corps DATE: 01/23/98 (DOLLARS) S IDENT FY 1999 ----FY 1997---- E LINE CODE UNIT COST QUANTITY COST QUANTITY COST C NO ITEM NOMENCLATURE ____ _____ BUDGET ACTIVITY 01: Navy Ammunition Navy Ammunition 1 0145 General Purpose Bombs(RESERVE) Α .1 .1 .1 U 2 0150 2.75 Inch Rockets(RESERVE) . 1 .1 U 3 0155 Machine Gun Ammunition(RESERVE) . 3 . 3 .3 U 4 0160 Practice Bombs(RESERVE) .6 3.3 2.6 U 5 0184 Marine Location Markers(RESERVE) .* U Α 6 0194 JATOS(RESERVE) .* U Α . 1 .1 7 0250 5 Inch/54 Gun Ammunition(RESERVE) – U Α 8 0260 CIWS Ammunition(RESERVE) .* U Α 9 0265 76mm Gun Ammunition(RESERVE) .* U Α 10 0270 Other Ship Gun Ammunition(RESERVE) .* U 11 0335 Small Arms & Landing Party Ammo(RESERVE) .1 U 12 0340 Pyrotechnic and Demolition(RESERVE) .1 U TOTAL Navy Ammunition 1.4 4.0 3.4

* ITEMS UNDER \$50,000

Procurement of Ammunition, Navy & Marine Corps Program and Financing (in Thousands of dollars)

	Budget Plan (actions	programed)			Obligations	
Identification code 17-1508-0-1-051				1997 actual		
Program by activities:						
Direct program: 00.0101 Proc Ammo, Navy	144 495	257 018	282 866	182 258	211 913	256 680
00.0201 Proc Ammo, MC	132,141	124,560	146,673	182,258 192,747	92,497	147,268
00.9101 Total direct program	276,636	381,578	429,539	375,005	304,410	403,948
01.0101 Reimbursable program		10,000	10,000	2,092	10,000	10,000
10.0001 Total	276,636			377,097		
Financing: Offsetting collections from: 11.0001 Federal funds(-) 14.0001 Non-Federal sources(-)		-10,000	-10,000	-4	-10,000	-10,000
17.0001 Recovery of prior year obligations Unobligated balance available, start of year: 21.4002 For completion of prior year budget plans 21.4003 Available to finance new budget plans 21.4009 Reprograming from/to prior year budget plan	-15,520 -1,900			-16,504 -132,136 -15,520	-46,283	-123,451
22.2001 Unobligated balance transferred from other ac Unobligated balance available, end of year: 24.4002 For completion of prior year budget plans	-2,100			-2,100 46,283	123,451	149,042
39.0001 Budget authority	257,116	381,578	429,539	257,116	381,578	429,539
Budget authority: 40.0001 Appropriation	273,903	397,547	429,539	273,903	397,547	429,539
40.7601 Reduction pursuant to P.L. 105-56 (-), 8041 41.0001 Transferred to other accounts (-)	-16,787	-9,000		-16,787	-9,000	
43.0001 Appropriation (adjusted)	257,116	381,578	429,539	257,116	381,578	429,539
Relation of obligations to outlays: 71.0001 Obligations incurred 72.1001 Orders on hand, SOY 72.4001 Obligated balance, start of year 74.1001 Orders on hand, EOY 74.4001 Obligated balance, end of year				377,093 275,314 -6,425 -370,187	304,410 6,425 370,187 -6,425 -371,799	403,948
78.0001 Adjustments in unexpired accounts 90.0001 Outlays (net)				-16,504 259,291	302,798	372,051

Procurement of Ammunition, Navy & Marine Corps Object Classification (in Thousands of dollars)

Identification code 17-1508-0-1-051	1997 actual	1998 est.	1999 est.
Direct obligations:			
125.101 Advisory and assistance services Purchases goods/services (inter/intra) Fed accounts	2,651	4,404	4,402
125.303 Purchases from revolving funds 131.001 Equipment	101,870 270,484	98,638 201,368	118,525 281,021
199.001 Total Direct obligations	375,005	304,410	403,948
Reimbursable obligations:			
Purchases goods/services (inter/intra) Fed accounts 225.303 Purchases from revolving funds	2,092	10,000	10,000
299.001 Total Reimbursable obligations	2,092	10,000	10,000
999.901 Total obligations	377,097	314,410	413,948

Comparison of FY 1998 Program Requirements as Reflected in the FY 1998/FY 1999 Budget with FY 1998 Program Requirements as Shown in the FY 1999 Budget Request (In Thousands of Dollars)

	FY 1998 Total Program Requirements Per FY 1998 Budget	FY 1998 Program Requirements <u>Per FY 1999 Budget</u>	Increase (+) or Decrease (-)
BA 1: Navy Ammunition	237,978	257,018	+19,040
BA 2: Marine Corps Ammunition	98,819	124,560	+25,741
Subtotal Direct Program	336,797	381,578	+44,781
Reimbursable	10,000	10,000	0
Total Fiscal Year	346,797	391,578	+44,781

BA 1: The FY 1998 President's Budget reflected \$237.978 million for Navy ammunition procurement in the Procurement of Ammunition Navy & Marine Corps (PANMC) appropriation (BA1). The Congress added \$10.0 million for Practice Bombs, \$22.5 million for 5/54 Ammunition, and \$1.750 million for Machine Gun Ammunition. Additionally, the Congress reduced funding as follows: Section 8041 Contract Advisory and Assistance Services (-\$0.303 million); Section 8043 1.5 percent General Reduction (-\$4.065 million); Revised Economic Assumptions (-\$1.363 million); and Section 8106 Warranty Savings (-\$0.479 million). Funding in the amount of \$9.0 million was reprogrammed from JDAM to the Other Procurement, Navy (OPN) appropriation to allow more economic procurement of SLAM-ER. JDAM funds were available due to a reduced requirement for BLU-109 bomb bodies.

BA 2: The FY 1998 President's Budget reflected \$98.819 million for Marine Corps ammunition procurement in the Procurement of Ammunition Navy & Marine Corps (PANMC) appropriation (BA2). The Congress added funding as follows: 5.56mm All Types (+\$3.0 million); 7.62mm All Types (+\$3.0 million); Linear Charges All Types (+\$7.5 million); 40mm All Types (\$1.5 million); Fuze All Types (+\$3.5 million); and Rockets All Types (+10.0 million). Additionally, the Congress reduced funding as follows: Sect 8043 1.5 percent General Reduction (-\$1.899 million); Section 8043 Economic Assumptions (-\$0.637); and Section 8106 Warranty Savings (-\$0.223).

Reimbursable Orders: The FY 1998 President's Budget contained \$10 million for Reimbursable Authority. This amount remains unchanged in the FY 1999 President's Budget.

Comparison of FY 1998 Financing as Reflected in the FY 1998/FY 1999 Budget with FY 1998 Financing as Shown in FY 1999 Budget Request (In Thousands of Dollars)

	FY 1998 Financing Per FY 1998 Budget	FY 1998 Financing Per <u>FY 1999 Budget</u>	<pre>Increase(+) Decrease(-)</pre>
Program Requirements (Total) Program Requirements (Direct) Program Requirements (Reimb)	346,797 (336,797) (10,000)	391,578 (381,578) (10,000)	+44,781 (+44,781) (0)
Less: Anticipated Reimbursements	10,000	10,000	(0)

Explanation of Changes in Financing

The +\$44.8 million change in program requirements is the result of Congressional increases (+\$62.8 million), reprogramming of JDAM funds to OPN (-9.0 million), and Congressional undistributed reductions: Section 8041 Contract Advisory and Assistance Services (-\$0.3 million); Section 8043 1.5 percent General Reduction (-\$6.0 million); Economic Assumptions (-\$2.0 million); and Section 8106 Warranty Savings (-\$0.7 million).

Comparison of FY 1997 Program Requirements as Reflected in the FY 1998/FY1999 Budget with FY 1997 Program Requirements as Shown in FY 1999 Budget Request (In Thousands of Dollars)

	FY 1997 Total Program Requirements <u>Per FY 1998 Budget</u>	FY 1997 Total Program Requirements <u>Per FY 1999 Budget</u>	Increase (+) or Decrease (-)
BA 1: Navy Ammunition	151,489	144,495	-6,994
BA 2: Marine Corps Ammunition	132,140	132,141	+1
Subtotal Direct Program	283,629	276,636	-6,993
Reimbursable	10,000	10,000	0
Total Fiscal Year	293,629	286,636	-6,993

BA 1: Changes reflect above threshold reprogrammings: (-\$3.293 million) transfer to partially offset MPN shortfall; and (-\$3.7 million) OMNIBUS reprogramming to address higher priority emergent requirements.

BA 2: Changes reflect minor below threshold reprogrammings and rounding (+\$0.001 million).

Comparison of FY 1997 Financing as Reflected in the FY 1998/FY 1999 Budget with FY 1997 Financing as Shown in FY 1999 Budget Request (In Thousands of Dollars)

	FY 1997 Financing Per <u>FY 1997 Budget</u>	FY 1997 Financing Per FY 1998 Budget	Increase (+) Decrease (-)
Program Requirements (Total) Program Requirements (Direct) Program Requirements (Reimb)	293,629 (283,629) (10,000)	286,636 (276,636) (10,000)	-6,993 (-6,993) (0)
Less: Anticipated Reimbursements	10,000	10,000	(0)

Explanation of Changes in Financing

Direct Program: Changes reflect above threshold reprogrammings (-\$6.993 million).

UNCLASSIFIED

			BUDGET	ITEM JUST	TIFICATION	SHEET				DATE:			
				P-4	10					FEBRUAR'	Y 1998		
APPROPRIATION/B	UDGET ACTIVI	TY						P-1 ITEM NO	MENCLATURI				
PROCUREMENT	COF AMMUN	IITION, I	NAVY & MA	ARINE COR	PS			General P	urpose Bon	nbs (Y1Q2)			
Program Element for	Code B Items:							Other Related	l Program Eler	nents			
B.A.1 - Navy Am	munition												
	Prior	ID										То	
	Years *	Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	Complete	Total
QUANTITY													
COST													
(In Millions)	\$55.1		\$41.1	\$25.1	\$12.5	\$22.9	\$26.0	\$25.3	\$22.8	\$23.3	Cont	Cont	Cont

GBU-24/BLU-109: Operation Desert Storm revealed an urgent USN/USMC requirement for a 2000lb moderate to hard target penetrator weapon. Based upon Operational Requirements submitted by the fleet CINC's, a product improvement program was initiated to provide the USAF GBU-24/BLU-109 to the Fleet. The USN version consists of a 2000lb class BLU-109 warhead filled with approximately 535lbs of PBXN-109, a WGU-39 guidance and control unit, an FMU-143E/B tail fuse (with a less sensitive PBXN-7 booster and lead), FZU-32 arming unit, ADG-770 adapter group, and BSU-84 AFG. The FMU-143E/B fuse and BLU-109 warhead transitioned to the Single Manager for Conventional Ammunition in FY 95.

FY 98/99 PIP is used to continue investigation of hardware coating materials necessary to meet the Environmental Protection Agency's more stringent requirements.

In FY 99, MK 84 (2000lb) PBXN-109's, LGB Air Foils and M72 Cables will be procured to replace Non-combat expenditures, maintain war reserves, and support both live and inert 500 lb training.

<u>PES/ILS</u>: The FY 98/99 production engineering support (PES) and integrated logistics support (ILS) are continuing efforts in support of the procurement of GP bombs and ancillary components. These efforts include providing recommendations and assisting in rapid resolution of maintenance procedure discrepancies to achieve optimum asset readiness. Also included are audits, pre-award surveys, post award surveys, post award conferences, First Article Testing, and other testing required to overcome any technical problems which may arise. These funds are provided in parallel with the FY 98 and FY 99 end item buys.

96 97 98 99 00 01 02 03 Navy Reserves .1 .1 .1 .1 .1 .1 .1 .1

DD Form 2454, JUN 86

P-1 SHOPPING LIST

CLASSIFICATION:

ELASSIFICATION: UNCLASSIFIED

	WEAPONS SYS		T ANALYS	SIS			Weapon	System									DATE:	
		P-5						ı									Februa	ry 1998
	PRIATION/BUDGET ACTIVITY		AAA DINIE	0000	^		ID Code	P-1 ITEM N	OMENCLAT	TURE/SUB	HEAD							
	UREMENT OF AMMUNITION, N	NAVI &	WARINE	CORP	3			0	D	Damba	()(400)							
B.A. 1	- Navy Ammunition		i					General	Purpose	Bombs	(Y1Q2)							
			TOTAL CO	ST IN TH	OUSANDS OF	DOLLARS												
COST	ELEMENT OF COST	ID	Prior					FY 1996			FY 1997			FY 1998			FY 1999	
CODE		Code	Years *															
OODL		Oodc	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cos
Q2170	GBU-24/BLU-109	A					502	65470.11	32,866			0			0			(
	BSU-33 Conical Fin (F782)	A					25,330	87.84	2,225			0			0			
	MK-83 Conical Fins (F642)	Α					20,000	0.101	0	33,235	326.04	10,836			0			
Q2180	LGB AIR FOILS (MXU-651/B)	Α							0			0			0	428	6221.96	2,663
Q2180	LGB AIR FOILS (MXU-667/B)	Α							0	402	6467.66	2,600			0	1,509	5821.74	
Q2180	LGB (Skipper Conversion)	Α							0	2300	2307.83	5,308			0			C
	MK 84 (2000# Bomb) PBXN 109	Α							0			0			0	841	8000.00	6,728
	DSU-33 Proximity Fuze	Α							0			0	,	1799.02	8,597			0
	M72 Cables	Α							0	12,750	28.14	360	8,000	32.41		8,000	30.56	
Q2800	ILS								707			359			603			588
	ILS (GP Bombs)								(376)			(188)			(303)			(388)
	ILS (GBU-24)								(331)			(171)			(300)			(200)
Q2830	PES/NAVY								3,665			3,718			2,132			2,991
	PES (GP Bombs) PES (GBU-24)								(2018)			(2752) (966)			(1053) (1079)			(1810) (1181)
Q2831	PES/ARMY								(1647)			(900)			15			254
	PIP								1,570			1,375			651			100
	Non Standard Items								1,570			1,373			001			100
	Renovation Components								0			100			0			200
	Gaging								112			376			250			250
	Initial Training								0			0			0			0
*FY 95 or	I nly. Prior to FY 95, Program was budgeted	I Lunder W/PN	ı V															
. 1 00 01	TOTAL		\$55,106						41,145			25,132			12,507			22,904
DD E0D			HODDING I		I	1		ı	,0						,			,50

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 1 PAGE NO. 2

UNCLASSIFIED

BUDGET PROCUREM	ENT HISTO	ORY AND P	LANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
									February 1	1998
B. APPROPRIATION/BUDGET					C. P-1 ITEM NOME				SUBHEAD	
PROCUREMENT OF A		ON, NAVY 8	MARINE CORPS			General Purpose Bomb	S		Y1	Q2
B.A.1 - Navy Ammunit	ion							_		
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
GBU-24 COMPONENTS										
Q2170 BLU-109 Bomb Bodies										
FY 95*	638	12,688.93	Rock Island, IL	Dec 94	C/FP	NATIONAL FORGE CORP. (IRVINE, PA)	Mar-95	Nov-97	YES	
FY 96**	502	15,280.0	Rock Island, IL	Dec 94	C/FP	NATIONAL FORGE CORP.	Feb-97	Dec 97	YES	
Q2170 <u>BSU-84 AFG</u>										
FY 95 FY 96	638 502	8,814.19 8,866.87	Hill AFB Hill AFB	Dec 94 Apr 96	SS/FP SS/FPoption	TEXAS INSTRUMENTS TEXAS INSTRUMENTS	Sep-95 Jun-96	Jun-98 Oct-98	YES YES	
Q2170 <u>WGU-39/B G&C U</u>	l <u>NIT</u>									
FY 95 FY 96	638 502	41,839.39 42,089.46	Hill AFB Hill AFB	Dec 94 Apr 96	SS/FP SS/FPoption	TEXAS INSTRUMENTS TEXAS INSTRUMENTS	Sep-95 Jun-96	Jun-98 Oct-98	YES YES	
Q2170 <u>FMU-143 E/B FUZ</u> FY 95***	I <u>E(F849)</u> I 638	2,188.30	Rock Island, IL	Dec 94	SS/FP	DAYRON, INC	Sep-95	Oct-97	YES	
FY 96***	502	2,325.12	Rock Island, IL	Dec 95	SS/FP	DAYRON, INC	Aug 96	Dec 97	YES	

D. REMARKS

^{*}Unit cost does not include LAP (load-assemble-pack) dollars

^{**}Option on an existing contract.

^{***}Need to requalify vendor for bellows motor

UNCLASSIFIED

BUDGET PROCUREM	ENT HIST	ORY AND F	PLANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
									February 1	1998
B. APPROPRIATION/BUDGET					C. P-1 ITEM NOME				SUBHEAD	
PROCUREMENT OF A		ON, NAVY	& MARINE CORPS			General Purpose Bomb	S		Y1	Q2
B.A.1 - Navy Ammunit	ion	1			CONTRACT		I	DATE OF	SPECS	IF No
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	WHEN AVAILABLE
Q2010 <u>BSU-33 (F782)</u>										
FY95*	41,700	87.84	Rock Island, IL	May-96	C/FP	MTD	Aug 96	Mar-97	YES	
FY96*	25,330	87.84	Rock Island, IL	May-96	C/FP	MTD	Aug 96	Mar-97	YES	
Q2030 <u>MK-83 Conical Fin</u>	 s									
FY97	33,235	326.04	Rock Island, IL	Feb-97	C/FP	MTD	Oct-97	Nov-98	YES	
Q2TBD MK 84 (2000LB)	TP									
FY99	841	8,000.00	Rock Island, IL	TBD	C/FP	UNKNOWN	Apr 99	Jun-00	YES	
Q2180 <u>LGB AFG(MXU-66</u>	 67/B/MXU-6	51B)								
FY95 (MXU-651/B)	600	5,301.67	HILL AFB	Jun-96	SS/FP	TEXAS INSTRUMENT	Aug 96	May-97	YES	
FY97(MXU-667/B)	402	6,467.66	Hill AFB	May-97	SS/FP	TEXAS INSTRUMENT	Jul-97	Apr 98	YES	
FY97(SKIPPER CONV.)	2,300	2,307.83	Crane, IN	May-97	SS/FP	TEXAS INSTRUMENT	Jul-97	Sep-97	YES	
FY99(MXU-667/B)	1,509	5,821.74	Hill AFB	TBD	SS/FP	TEXAS INSTRUMENT	Jul-99	Apr 00	YES	
FY99(MXU-651/B)	428	6,221.96	Hill AFB	TBD	SS/FP	TEXAS INSTRUMENT	Jul-99	Apr 00	YES	
Q2190 <u>DSU-33</u>										
FY 98	4,778	1,799.02	Eglin AFB	TBD	C/FP	UNKNOWN	Jun-98	Dec 98	YES	
Q2890 <u>M 72 Cables</u>										
FY97	12,750	28.14	Rock Island, IL	Oct-96	C/FP	MID SOUTH	Mar-97	Sep-97	YES	
FY98	8,000	32.41	Rock Island, IL	TBD	C/FP	UNKNOWN	Jan 98	Feb-99	YES	
FY99	8,000	30.56	Rock Island, IL	TBD	C/FP	UNKNOWN	Jan 99	Feb-00	YES	
D. REMARKS										

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^{*}FY 95/96 Combined procurement

^{**}IMCO, Garland, Texas bomb bodies manufacturer, LAP at McAlester, OK.

FY 1998/99 BUDGET PRODU	JCTION	SCHE	DULE	E, P-2	1													DATE			uary									
APPROPRIATION/BUDGET APROCUREMENT OF AMMUN			& MA	RINE	CORI	PS							We	apon	Sys	tem		P-1	ITEM	I NO					se Bo	mbs	(Y1Q	2)		
	-						Pro	oduct	ion F	Rate					Pro	ocure	men	t Lea	adtim	es				-			•			
		Mar	nufactu	ırer's								AL	T Pr	ior	AL	T Af	ter		Initial		R	eord	er					Ur	nit of	
Item	1	Name	and L	ocatio	n	М	SR	1-	8-5	M	AX	to	Oct	1	(Oct 1		M	fg PL	Т.	М	fg Pl	_T		Tota	I		Me	asure	
GBU-24 Components			rumen			8			20	39						10			13						23				ach	
GBU-24 Components		on, Inc					00	20		80						6			18						24				ach	
GBU-24 Components		nal Fo				10			00	40						4			20						24				ach	
	1101110		9-																								<u> </u>			
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ITEM / MANUFACTURER	F Y	S	Q	D	В		1997	T =		T =				NDAR	YEAR									T	NDAR	YEAR 1	999	Т.		В
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BLU-109 A/B (F142) (GBU-24)		N				- ' -	V		IN	В	K	ĸ	<u> </u>	IN		G	٢	1	V	U	IN	В	K	K	Y	N	╁	G	P	
National Forge	95		638	0	638		638																		1			 		(
National Forge	96		502	0	502			502																						(
BSU-84/B (F765) (GBU-24)		N																												
Texas Instruments	95		638	0	638									90	206	206	43	93												(
Texas Instruments	96		502	0	502										***************************************			107	200	195										(
WGU-39/B (EY71)(GBU-24)		N																												
Texas Instruments	95		638	0	638									77	206	219	136									-				(
Texas Instruments	96		502	0	502		ļ	-		ļ	ļ		ļ		***************************************			107	200	195						-				(
FMU-143E/B (F849)(GBU-24)	0.5	N	000		000	400	400		000		100															-				ļ.,
Dayron, Inc Dayron, Inc	95 96		638 502	0	638 502	100	168	32	200 200	102	102		-												-	-				(
Dayron, inc	90		302	U	302			200	•	_													F1004			1				,
ITEM / MANUFACTURER	F	S	Q	D	В		1999		FIS	CAL Y	EAR 2	000	CALE	NDAR	YEAR	2000							FISCA		R 2001 NDAR	VEAD 2	001			
TIEW/WANDI ACTORER	Y	V	T	E	A	0	N	D	J	F	М	Α	M	J	J	A	S	0	N	D	J	F	М	A	M	J	J .J	A	S	В
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DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST 311 / 244

FY 1998/99 BUDGET PRODUC	TION	SCH	EDULE	E, P-2	1													DATE				1998								
APPROPRIATION/BUDGET AC Procurement of Ammunit			& MA	RINE	CORF	PS .							Wea	apon	Syst	tem		P-1	ITEM	I NO			TUR ral P		se Bo	mbs	(Y1Q2	2)		
	-						Pro	oduct	ion R	ate					Pro	ocure	emer	t Lea	adtim	es							•			
Item			nufactu and L		'n	1.10	SR		8-5		AX		T Pr		Αl	_T Af	ter		Initia fg PL			leord			Tota	ı		_	nit of asure	
BSU-33			ol & Die		<i>/</i> 11	300		50		100		ıc	OCI	1		6	ı	IVI	14	. !	IV	ily F	LI		20	,ı	1		usand	
MK-83 Conical Fins	_		n a Die	,		700		90																	17		-			
	Unkn									150						6			11						18		ļ	Inol	usand	
GB AFG			rument	เร		88		22		39						9			9								ļ		Each	
MK 84 (2000LB) TP	Unkn	nown				120	1200 2400 4800				0					14						20				housa	ands			
ITEM / MANUFACTURER	F	S	Q	D	В	1997			FISCA	L YEAI	R 1998		ÇALEN	DAR \	<u>/</u> EAR	1998							FISCA		R 1999 NDAR	YEAR 19	99			
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	S E P	E A L
BSU-33 (F782)		Ν																												
MTD	95		41.7	0	41.7						5.2	5.2	5.2	5.2		5.2		5.3												
MTD	96		25.3	0	25.3						3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.6												
/lk 83 Conical Fins UNKNOWN	97	N	33.2	0	33.2	Α													2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
MK 84 (2000LB) TP	31	N	33.2		33.2														2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-
UNKNOWN	99	1	841	0	841																			Α						
LGB AFG	- 00	N	011		011																			, ,						
Texas Instruments(MXU-651)	94		151	70	81	14	14	14	14	14	11																			
Texas Instruments(MXU-651)	95		600	250	350	50	50	50	50	75	75																			
Texas Instruments(MXU-667)	97		402	0	402							34	34	34	34	34	34	34	34	34	34	34	28							
Texas Instruments(Skipper Conv)	97		2300	191	2109	191	191	191	191	191	191	191	191	191	191	199														
Texas Instruments(MXU-667)	99		1509	0	1509																						Α			1,5
Texas Instruments(MXU-651)	99		428	0	428																						Α			4
ITEM / MANUFACTURER	F	S	Q	D	В	1999			FISCA	L YEAI	R 2000		CALEN	DAR V	/FAR	2000							FISCA		R 2001	YEAR 20	nn1			
TIENT, WARTON ACTORER	Y	V	T	E	A	0	N	D	J	F	М	Α	M	J	J	A	S	0	N	D	J	F	М	A	М	J J	J	Α	S	В
		С	Υ	L	L	C	0 V	E	A N	E B	A R	P R	A	U N	Ü	U G	E P	C	0 V	E C	A N	E B	A R	P R	A	U	Ü	U G	E	L
Ak 83 Conical Fin	07		22.0	20.0	0.4		V		11					- 18											Ľ					
UNKNOWN //K 84 (2000LB) TP	97		33.2	30.8	2.4	2.4																								
UNKNOWN	99		841	0	841									70	70	70	70	70	70	70	70	70	70	70	71					(
.GB AFG		I																												
Texas Instruments(MXU-667)	99		1509	0	1,509							126						126					123							(
Texas Instruments(MXU-651)	99		428	0	428							35	35	35	35	35	35	35	35	35	35	35	43							0

FY 1998/99 BUDGET PROD	UCTION	SCHI	EDULI	E, P-2	1													DATE		Feb	ruary	199	8							
APPROPRIATION/BUDGET / PROCUREMENT OF AMMU!			′ & MA	RINE	COR	PS							We	apor	Syst	tem		P-1	ITEN		MEN Gen				Bon	nbs	(Y10	Q2)		
							Pro	duct	ion F	Rate					Pro	cure	emer	nt Le	adtin	nes										
			nufacti										LT P			T Af			Initia			eord							nit of	
Item		Name	and L	ocatio	n	M	SR	1-	8-5	M	AX	t	o Oct	: 1	(Oct 1		M	lfg P	LT_	M	lfg P	LT		Tota	al	-	<u>Me</u>	asure)
DSU-33	Moto	rola				40	000	40	00	55	00					8			6						14			Tho	usan	ds.
M72 Cables		South					NK		NK		NK					3			13						16				usan	
		1	1		1				FIC	CAL YE	-AD 1	000										FIC	SCAL Y	/EAD	1000					
ITEM / MANUFACTURER	F	S	Q	D	В	1997			FIS	CAL YE	EAR I	998	CALE	NDAR	YEAR	1998						FIC		ALENI		EAR 1	999			
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U I	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N		A U G	S E P	B A L
DSU-33		N				 	V	U	IN	D	, r	K	1	IN	L	G	_ F	<u> </u>	V	U	IN	D	Ι Γ	K	ī	IN	╁	+ 6	+	lacksquare
UNKNOWN	98		4.8	0	4.8									Α						0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	4 0.4	0.4	0.8
M72 Cables		N																												<u> </u>
UNKNOWN	97		12.8	9.4	3.4	1.1	1.1	1.2														4.0	1.0						-	0.0
UNKNOWN UNKNOWN	98 99		8.0	0	8.0				Α												Α	4.0	4.0					+		0.0 8.0
Gillinoviii	00		0.0		0.0																, ,									0.0
									FIS	CAL YE	EAR 2	000										FIS	SCAL Y	'EAR	2001					
ITEM / MANUFACTURER	F	S	Q	D	В	1999						_	CALE	NDAR	YEAR	2000								ALENI		EAR 2	001		_	l
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U			S E P	B A L
DSU-33 UNKNOWN	98		4.8	4.0	0.8	0.4	0.4																							0.0
M72 Cables	98		4.8	4.0	0.8	0.4	0.4																					+	+	0.0
UNKNOWN	99		8.0	0	8.0					4.0	4.0																			0.0
																													_	
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Remarks:																													_	

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

311 / 244 Exhibit P-21 Production Schedule

DD Form 2454, JUN 86

UNCLASSIFIED

			В	UDGET ITE	M JUSTIFI P-40	CATION SI	HEET					DATE:	ıary 98	
APPROPRIATION/BUDG PROCUREMENT OF	-	ON, NAV	Y & MARIN	NE CORPS		munition		P-1 ITEM NO		RE DIRECT A	TTACK MU	l.	ary 90	
Program Element for Cod	le B Items:	·						Other Related	d Program Ele	ements				
	Prior Years ID Code FY 1995 FY 1996 FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY													
QUANTITY	N/A	В	N/A	N/A	N/A	668	898	785	641	809	2,622	19,073	25,496	
COST (\$M)						\$28.6	\$41.4	\$36.0	\$30.1	\$30.6	\$66.0	\$480.2	\$712.9	
Initial Spares (\$M)						\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
Total (\$M)	\$0.0		\$0.0	\$0.0	\$0.0	\$28.6	\$41.4	\$36.0	\$30.1	\$30.6	\$66.0	\$480.2	\$712.9	
Unit Cost (\$M)						0.043	0.046	0.046	0.047	0.038	0.025	0.025	0.028	

MISSION AND DESCRIPTION Operation Desert Storm confirmed the need for a more accurate weapon delivery capability in adverse weather conditions and from medium/high altitudes. Failure to satisfy this requirement will allow the enemy to continue to take advantage of the sanctuary of weather and/or prevent US air power from prosecuting a conflict on its terms. JDAM is an Air Force and Navy munitions program to correct these shortfalls, with the Air Force as the executive service. JDAM will upgrade the existing inventory of general purpose bombs (MK 84, BLU-109/B, and MK 83) by integrating them with a guidance kit consisting of a global positioning system aided inertial navigation system (GPS/INS). JDAM will provide an accurate (13 meters) adverse weather capability. JDAM will initially be integrated with the B-52, B-1B and F/A-18C/D aircraft with follow-on integration on the F-16, F-15E, F-22 and other aircraft. The total production buy for JDAM is 87,496 units (62,000 for AF and 25,496 for Navy). No requirement for initial spares because of 20 year warranty.

P-1 SHOPPING LIST

UNCLASSIFIED

CLASSIFICATION:

ITEM NO 2 PAGE NO 1

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	WEAP	ONS SY	STEM COST P-5	T ANALYSI	IS				Weapon Sy	rstem							DATE: Febr	uary 98
	PRIATION/BUDGET ACTIVITY JREMENT OF AMMUNITION, NAV	/Y & M		DRPS/B.A	A. 1. Amr	munition			ID Code B	P-1 ITEM NO		JOINT DIF		ACK MUN	NITION			,
			TOTAL COS	T IN THOUS	SANDS OF I	OOLLARS												
COST	ELEMENT OF COST	ID Code	Prior Years		FY 1995			FY 1996			FY 1997			FY 1998			FY 1999	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Co
	AIR VEHICLE JOINT PROGRAMMABLE FUZE (JPF) WARHEAD (1) ENGINEERING CHANGE ORDERS (ECO)	B B	N/A										668 668 0 668	18,483 3,912 0 516	12,346 2,613 0 345	898 898 592 898	3,249 18,642	2,9 11,0
	TOTAL RECURRING FLYAWAY												668	22,910	15,304	898		
	PRODUCTION TECH SUPPORT CONTRACTOR INCENTIVE PRODUCTION TEST DATA BLU-109 CABLES														7,855 360 897 123 1,034			5,
	TOTAL NON-RECURRING														10,269			6
	TOTAL WEAPON FLYAWAY												668	38,282	25,573	898	42,368	38
	LOAD/BUILDUP TRAINERS TEST EQUIPMENT (2) ILS TRAINING DATA (TECHNICAL)														134 1,447 883 541 32			1,8 9
	TOTAL FLEET SUPPORT														3,037			3,
	TOTAL WEAPON SYSTEM INITIAL SPARES												668 0	42,829	28,610 0	898 0	46,061	41
	TOTAL PROCUREMENT												668	42,829	28,610	898	46,061	41
	CONTROLS 1 2446, JUN 86		0 OPPING LIST			0			0			0			28,610 CLASSIFICA			41,

DD FORM 2446, JUN 86 P-1 SHOPPING LIST ITEM NO. 2 PAGE NO. 2

NOTE 1. QUANTITY AND COSTS ARE FOR BLU-109 WARHEADS ONLY. MK-84 AND MK-83 WARHEADS ARE IN EXISTING INVENTORY.

NOTE 2. TEST EQUIPMENT INCLUDES THE COST FOR THE COMMON MUNITIONS BIT REPROGRAMMBLE EQUIPMENT (CMBRE)

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BUDGET PROCURE	MENT HISTO	ORY AND	PLANNING EXHIBIT	Г (Р-5А)		Weapon System		A. DATE		
					1				February 9	8
B. APPROPRIATION/BUDG PROCUREMENT OF		ON, NAVY	& MARINE CORPS	/B.A.1	C. P-1 ITEM NON JOINT DIRE	MENCLATURE CT ATTACK MUNITION			SUBHEAD Y1	JD
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY98 JDAM	668	22,910	USAF ASC/YU EGLIN AFB, FL		FFP Option	McDonnell Douglas Aero St. Louis, MO	May 98	May 99	N/A ⁽¹⁾	N/A
FY99 JDAM	898	35,230	USAF ASC/YU EGLIN AFB, FL		TBD	McDonnell Douglas Aero St. Louis, MO	May 99	May 00	N/A ⁽¹⁾	N/A
D. DEMARKS										

D. REMARKS

(1). SPECIFICATIONS HAVE BEEN WAIVED DUE TO JDAM'S STATUS AS AN ACQUISITION REFORM PILOT PROGRAM.

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 2 Classification:

PAGE NO. 3

UNCLASSIFIED

nufactu e and L		on	MS 285/M	Pro-	1-8		M	AX 3/MO	to	T Pri	or I	AL (rocur T Aft Oct 1	ter	nt Lea	adtim Initia		R		OINT er	DIRE	CT A		CK M	UNITI Uni Mea	it of	
nufactu e and L I Doug MO	acturer's nd Locati buglas A	on	MS	Pro-	1-8	3-5	M		to	Oct '		AL (T Aft Oct 1	ter		Initia			eord	er				CK M	Uni	it of	
e and L I Doug MO	nd Locati buglas A	on		R	1-8	3-5	M		to	Oct '		AL (T Aft Oct 1	ter		Initia						Tota	<u> </u>		_		
e and L I Doug MO	nd Locati buglas A	on							to	Oct '		(Oct 1									Tota	ı		_		
I Doug MO	ouglas A														M	Ifg PL	_T	M	lfa PL	_T		Tota	I		Mea	SUITE	
MO		ero	285/M	10.	1083	3/MO	1083	3/MO		0 MO	(1)					_			· -	•			•			Joure	;
													0 MC)(1)		12 N	10		12 N	10		12 N	10		Е		
Q																					<u> </u>						
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Q																											
Q		1				FISCA	L YEA	R 1997											FIS		/EAR 1						_
		В	199	96				T		CALE	NDAR	YEAR	1997			Г					CALEND	DAR YE	AR 19	98	т		
Y	T E Y L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A L
668	68 0	668										_							_			Α					668
																						-					
								-												-					-		
 								-													-	+					
							FIS	SCAL Y	EAR 1	999									FIS	SCAL Y	EAR 2	2000					
Q		В	199	98			·			CALE	NDAR	YEAR	1999			·				C	CALENI	DAR YE	AR 20	00		l	
		Α	0	N	D	J	F	М	Α	М	J	J	Α	s	0	N	D	J	F	М	Α	М	J	J	A	S	B
'			C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U	U L	U G	E P	L
668		668								28	46	54	60	60	60	60	60	60	60	60	60						0
	98 0	898						-		Α					****							74	74	74	74	74	528
898								-																	\vdash		
_	6	T E L	T E A L	T E A O C T	T E A O N C O T V	T	T	Q D B 1998	Q D B 1998 T E A O N D J F M C C O E A E A T V C N B R	Q D B 1998 T E A O N D J F M A L C O E A E A P T V C N B R R	T	Q D B 1998 CALENDAR T E A O N D J F M A M J C O E A E A P A U T V C N B R R Y N 668 0 668 28 46	Q	Q D B 1998 CALENDAR YEAR 1999 T E A O N D J F M A M J J A C O E A E A P A U U U U U U G 668 O 668 I I B R R Y N L G	Q D B 1998 CALENDAR YEAR 1999 T E A O N D J F M A M J J A S C O E A E A P A U U U E T V C N B R R Y N L G P 668 0 668 0 28 46 54 60 60	Q D B 1998 CALENDAR YEAR 1999 T E A O N D J F M A M J J A S O C O E A E A P A U U U U E C T V C N B R R Y N L G P T 668 0 668 28 46 54 60 60 60	Q D B 1998 CALENDAR YEAR 1999 T E A O N D J F M A M J J A S O N C O E A E A P A U U U E C O T V C N B R R Y N L G P T V 668 0 668 I D 28 46 54 60 60 60 60	Q D B 1998 CALENDAR YEAR 1999 T E A O N D J F M A M J J A S O N D C O E A E A P A U U U U E C O E T V C N B R R Y N L G P T V C	Q	Q D B 1998 CALENDAR YEAR 1999 T E A O N D J F M A M J J A S O N D J F C O E A E A P A U U U E C O E A E T V C N B R R Y N L G P T V C N B	Q D B 1998 CALENDAR YEAR 1999 CO T E A O N D J F M A M J J A S O N D J F M C O E A E A P A U U U U E C O E A E A F F F F F F F F F F F F F F F M B F F F F F F F M B F F F F M B F F F F F M B F F F F F F M B F F F F F F F F F<	Q D B 1998 CALENDAR YEAR 1999 CALENDAR YEAR 1999 T E A O N D J F M A M J J A S O N D J F M A C O E A E A P A U U U U E C O E A E A P R Y N L G P T V C N B R R 668 0 668 I D B R R Y N L G P T V C N B R R	Q	Q D B 1998 CALENDAR YEAR 1999 CALENDAR YEAR 200 T E A O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J U U U E C O E A E A P A U U U E C O E A E A P A U U U U E C O E A E A P A U U U U D D N B R R Y N D D F N D N D D D D D D	Q D B 1998	Q D B 1998	Q D B 1998

Remarks: (1). There is no Admin Lead Time (ALT) because JDAM's first two production lots are options on the RDT&E contract.

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST
311 / 244 ITEM NO 2 PAGE 4

Exhibit P-21 Production Schedule

FY 1998/99 BUDGET PRODU			EDULE	., P-21														DATE				Fe	bruar	y 98						
APPROPRIATION/BUDGET A PROCUREMENT OF AMMUN	CTIVIT	Y			ORPS.	/B.A.	1						We	eapor	-						ИENC	LATU	URE	DIRE	CT A	TTA(CK M	UNIT	ION	
							Pro	oduct	tion R	ate					F	Procur	reme	nt Lea	adtim	eŧ										
Item		Nam		Location	1	MS			8-5		AX	to	LT Pr o Oct	-		LT Aft Oct 1		М	Initial	_T	М	Reord Ifg PL	LT		Tota			Ме	nit of easure)
JDAM		onnell ouis, N	Dougla MO	as Aero		285/I	MO.	1083	3/MO	1083	3/MO								12 M	10		12 N	10		12 N	10		E	<u>—</u>	
ITEM / MANUFACTURER	F	S	Q	D	В	21	000		FISCAL	_ YEAR	2001	November of the Control of the Contr	CAL	ENDAR	YEAR	2001						FIS		EAR 20			02			
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	NC	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	Z C C	J U L	A U G	S E P	B A L
JDAM/McDonnell Douglas Aero	99	N	898	370	528	74	74	76	76	76	76	76																		0
ITEM / MANUFACTURER	F	S	Q	D	В	21	002			FIS	3CAL Y	EAR 2		ENDAR	YEAR	2003		İ			Ī	FIS		CALEND		 EAR 200	 04			
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	ZC	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	ZCC	J U L	A U G	S E P	B A L
Domosto																														
Remarks:																														

 DD Form 2445, JUL 87
 Previous editions are obsolete
 P-1 SHOPPING LIST

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 ITEM NO 2
 PAGE 5

Exhibit P-21 Production Schedule

DD Form 2454, JUN 86

UNCLASSIFIED

			BUDGET	TITEM JUST P-4		SHEET				DATE:	Februa	ry 1998	
APPROPRIATION/BUI	DGET ACTIVI	TY		• -				P-1 ITEM NO	MENCLATURE		1 051 44	. , 1000	
PROCUREMENT (OF AMMUN	IITION,	NAVY & MA	ARINE COR	PS				2.7	5 INCH RO	CKETS (Y10	Q3)	
Program Element for C		•						Other Related	Program Elem			,	
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total	
QUANTITY													
COST (In Millions)	14.3*	А	\$14.3	\$8.9	\$15.5	\$16.1	\$16.4	\$16.9	\$17.2	\$17.6	Continuing	Continuing	
motor (MK 66 Mc Army Single Mar Product improver munitions rocket Funds provided in M278 warheads. *Reflects only Fappropriations.	nager for Co ments addre motor comp n the FY 199 Initial proce	ess defic ess defic liance e 99 budg urement	nal Ammun ciencies in thefforts. et request p tof MK 67 v	ition (SMCA) ne safety, rel provide for provide is prov	using Convictions and procurement of the color of the col	ventional Amoroducibility of MK 66 roomy 1999.	of the 2.75 licket motors	orking Capitanch Rocket S	al Fund (CAV System. Spe	VCF) standa	ard prices. s include cor	ntinuation of	insensitive rements of
NAVY RESERVE				<u>FY96</u> \$0.1	<u>FY97</u> \$0.1	<u>FY98</u> \$0.1	<u>FY99</u> \$0.1	<u>FY00</u> \$0.1	<u>FY01</u> \$0.1	<u>FY02</u> \$0.1	<u>FY03</u> \$0.1		

P-1 SHOPPING LIST PAGE NO. 1 CLASSIFICATION:

ITEM NO. 3

UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

	WEAP	ONS S	YSTEM CO	ST ANALY	SIS				Weapon Sy	stem						DATE:	ary 1998
	PRIATION/BUDGET ACTIVITY REMENT OF AMMUNITION, NAVY & M.	ARINE	-						ID Code	P-1 ITEM NO	DMENCLATUR	RE/SUBHEAD	ı			rebiu	ily 1990
										2.75 INC	H ROCKET	S (Y1Q3)					
			TOTAL COS	T IN THOUS	SANDS OF D	OOLLARS											
COST	ELEMENT OF COST	ID Code	Prior Years*		FY 1996			FY 1997			FY 1998			FY 1999			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	LAU-68 D/A Launcher (H122)	Α	-	-	-	-	-	-	-	433	3138.56	1,359	-	-	-	L	L
	WTU-1/B Inert Warhead (H663)	Α	-	11,988	25.05	300	-	-	-	-	-	-	-	-	-		
	MK 66 Rocket Motor (HA03)	A	10,990	21,036	410.08	8,627	-	400.00	-	45.000	-	-	-	-	- 0.070		
	MK 66 Rocket Motor (HA07) M278 IR Illum. Warhead (HA06)	A A	-	1,364 2,000	776.08 764.54	1,059 1,529	11,204 2,144	492.68 764.54			410.45 709.89	6,501 3,543	19,255 2,977	471.04 998.90	- ,		
	MK 67 Smoke Warhead (H893)	A	-	2,000	704.34	1,529	2,144	704.54	1,039	4,991	709.69	3,343	5,000	96.20	, ,		
100	Wit of Silloke Walliead (11093)	^	_	_	_	-	_		_	_		-	3,000	90.20	401		
Q3800	Integrated Logistics Support		144			150			133			140			150		
	Production Engineering Support(I	PES)	1,001			1,185			809			1,249			1,379		
	PES/ARMY		-			-			-			1,603			1,013		
	Product Improvement Program		1,751			1,256			726			900			900		
	Non-Standard Items		40			40			40			40			40		
	Renovation Components		60			60			55			60			60		
	Gaging		80			80			-			80			80		
Q3899	Initial Training Packages		190			-											
	*Reflects FY95 only, these programs were p	reviousl	I y funded in F	ا Y94 and prio	I r from the W	I eapons Procu	rement, Nav	ı vy (WPN) an	l d Other Procu	ı ırement Navy	(OPN) accour	nts.					
				.		·											
			14,256			14,286			8,922			15,475			16,147		

DD FORM 2446, JUN 86 P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 3 PAGE NO. 2

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREM	IENT HISTO	RY AND P	LANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
				,		' '		F	ebruary 19	98
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NON	IENCLATURE			SUBHEAD	
PROCUREMENT OF A	AMMUNITIO	N, NAVY 8	k MARINE CORPS			2.75 INCH ROCKETS			Y1	Q3
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	CONTRACT METHOD	CONTRACTOR	AWARD	DATE OF FIRST	SPECS AVAILABLE	DATE REVISIONS
FISCAL YEAR		COST (000)	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
Q3010 LAU-68 D/A LAUNCH	HER (H122)									
FY 98	433	3138.56	ARMY IOC (Rock Island, IL)	N/A	C/FP	UNKNOWN	May-98	Jul-99	YES	
Q3030 WTU-1/B (H663)		1	,							
FY 96	11988	25.05	ARMY IOC (Rock Island, IL)	N/A	C/FP	GENERAL DYNAMICS (Burlington, VT)	Dec-96	Nov-97	YES	
Q3040 MK 66 MOTORS										
FY 95 (HA03)	26500	414.72	ARMY IOC	N/A	C/FP	GENERAL DYNAMICS	Nov-95	Oct-96	YES	
FY 96 (HA03)	21036	410.08	ARMY IOC	N/A	C/FP	GENERAL DYNAMICS	Dec-96	Dec-98	YES	
FY 96 (HA07)	1364	776.08	ARMY IOC	N/A	C/FP	GENERAL DYNAMICS	Dec-96	Oct-97	YES	
FY 97 (HA07)	11204	492.68	ARMY IOC	N/A	C/FP	GENERAL DYNAMICS	May-97	Jul-99	YES	
FY 98 (HA07)	15839	410.45	ARMY IOC	N/A	C/FP	UNKNOWN	May-98	Jul-99	YES	
FY 99 (HA07)	19255	471.04	ARMY IOC	N/A	C/FP	UNKNOWN	May-99	Jul-00	YES	
Q3070 M278 WARHEAD (H/	A06)									
FY 96	2000	764.54	ARMY IOC (Rock Island, IL)	N/A	C/FP	THIOKOL (Odgen, UT)	Dec-96	Dec-97	YES	
FY 97	2144	764.54	ARMY IOC	N/A	C/FP	UNKNOWN	May-97	Oct-98	YES	
FY 98	4991	709.89	ARMY IOC	N/A	C/FP	UNKNOWN	May-98	Jul-99	YES	
FY 99	2977	998.90	ARMY IOC	N/A	C/FP	UNKNOWN	May-99	Jul-00	YES	
Q3TBD MK 67 WARHEAD (I	(H893)	[
FY 99	5000	96.20	ARMY IOC	N/A	C/FP	UNKNOWN	May-99	Jul-00	YES	
D. REMARKS										

DD Form 2446-1, JUL 87

Pricing is provided by the Army and incorporates other services' buys.

FY 1998/99 BUDGET PRODUC	TION	SCHE	DUL	E, P-2	1													DAT	Έ		F	ebru	ıary	199	98					
APPROPRIATION/BUDGET AC													Wea	apon	Sys	stem)	P-1	ITE	M NC	OME	NCL	ATI	JRE						
PROCUREMENT OF AMMUNIT	ION, I	YVAV	& MA	RINE	COR	PS															2.7	5 IN(CH	ROC	KE	TS				
							Pro	duct	ion I	Rate					Pro	ocur	eme	nt L	.eadti	mes										
		Man	nufactu	ırer's								AL	ΤPι	rior	AL	T A	ter		Initia	al	R	eord	er					Ur	nit of	f
Item	ı	Name	and L	ocatio	n	MS	SR	1-8	3-5	MA	X	to	Oct	1	(Oct	1	Ν	/lfg P	LT	M	fg Pl	LT		Tota	al		Me	asur	œ.
WTU-1/B (H663)	GEN	ERAL	DYNA	AMICS	3	5		10		120						7			14						21		1	TH		
		LING																									†			
MK 66 RKT MTR (HA03/HA07)		KHEEI				8		50)	250	<u> </u>					7			14						21		1	TH		
WITCO TITT WITT (TIMOS/TIMOT)		LING						- 00	,																		+			
LAU-68 LAUNCHER (H122)		NOW		V I		2	5	50	1	100	<u> </u>					7			14						21		+	ΕA		
LAU-00 LAUNCHEN (11122)	OINK	NOVVI	N .			۷,	<u> </u>	<u> </u>	,	100	<u> </u>								14						<u> </u>	—	+			
										FISCA	L YE	AR 19	998									FISC	AL YI	EAR	1999					Т
ITEM / MANUFACTURER	F	s	Q	D	В		1997						ALE	NDAR	YEAF	R 199	 3						CA	LEND	AR Y	EAR	1999			~
	Υ	V	Т	Е	Α	0	N	D	J	F	М	Α	M	.I	.1	Α	S	0	N	D	J	F	M	Α	М	Li	J	Α	S	В
		С	Υ	L	L	C	0	E	A	E.	A	P	A	Ü	Ü	Ü	E	C	0	E	A	E	Α	Р	A	Ŭ	Ü	Ü	E	A L
						Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	Ν	В	R	R	Υ	N	L	G	P	
Q3010-LAU-68 D/A LAUNCHER (H122)																														
UNK	98	N	0.4	0.0	0.4								Α														0.1	0.1	0.1	0.1
Q3030-WTU-1/B WARHEAD (H663)																										<u> </u>				
GENERAL DYNAMICS	96	N	12.0	0.0	12.0		6.0	6.0																		<u> </u>				0.0
Occupation of District																										-		_		
Q3040-MK 66 RKT MTR LOCKHEED MARTIN (HA03)	95	N	26.5	24.0	2.5			2.5																		-	-	-		0.0
GENERAL DYNAMICS (HA03)	95	N N	21.0	0.0	21.0			2.5										-		15.0	6.0					-	-		-	0.0
GENERAL DYNAMICS (HA03)	96	N	1.4	0.0	1.4	1.4														13.0	0.0					+	-	+		0.0
UNK (HA07)	97	N	11.2	0.0	11.2																					+-	11.2	2		0.0
UNK (HA07)	98	N	15.8	0.0	15.8								Α													†		1.2	1.6	
UNK (HA07)	99	N	19.3	0.0	19.3																				Α					19.3
(()										FISCA	I VE	ΔP 20	200									FISC	ΔΙ VΙ	EAR :						Ħ
ITEM / MANUFACTURER	F	s	Q	D	В		1999			1 100/	<u>\L L </u>			NDAR	VEAG	200		J				1100		LEND		 ΈΔΡ	2001			-
TIEM / WANGI ACTOREK	Ϋ́	V	T	E	A					-				IDAIN	·	T		Γ,	T					1	1	Т	T	Т.		В
		C	Y	L	L	0 C	N O	D E	J A	F E	M A	A P	M A	IJ	J	A U	S E	O	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S	A
						T	٧	C	N	В	R	R	Y	N	L	G	P	T	V	C	N	В	R	R	Y	N	Ĺ	G	P	L
Q3010-LAU-68 D/A LAUNCHER (H122)																										\vdash	+-	+		1
UNK	98	N	0.4	0.3	0.1	0.1																				1	-			0.0
Q3030-WTU-1/B WARHEAD (H663)																														
Q3040-MK 66 RKT MTR (HA03)																														
LINIX (LIA 07)			45.0	4.6	44.6	4.6	4.6	-10	4.0			L										ļ				 				<u> </u>
UNK (HA07)	98	N N	15.8 19.3	4.0 0.0	11.8	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4		l	4 7	ļ <u>.</u> .	1.5	4.5	4.5	4.5	1 5	4.0	4.0	 				0.0
UNK (HA07)	99																													. ()()

Remarks: Production rates are provided by the Army and include other services' buys.

FY 1998/99 BUDGET PRODU			EDUL	E, P-2	1													DATE						/ 199						
APPROPRIATION/BUDGET AC													Wea	apor	า Sy:	stem	1	P-1	ITEI	M N										
PROCUREMENT OF AMMUNI	TION, I	YVAV	& MA	RINE	COR	PS																5 IN	CH	ROC	KE.	TS				
							Pro	oduc	tion	Rate								nt Le	eadtii	mes										
		Mar	nufact	urer's								AL	T P	rior	AL	T A	fter		Initia		R	eord	der					Ur	nit of	
Item	1	Name	and L	ocatio	n	M	SR	1-8	3-5	MA	λX	to	Oct	t 1	(Oct	1	M	fg Pl	_T	M	lfg P	LT		Tota	ıl		Mea	asur	Э
WTU-1/B (H663)	GEN	ERAL	DYN	AMICS	3	5	<u>.</u>	10	0	12	:0					7			14						21		Ī	EΑ		
	BUR	LING	TON,	VT																										
MK 66 RKT MTR (HA03)	LOCI	KHEE	D MA	RTIN		8	3	5	0	25	0					7			14						21		T	TH		
(2 3 7			TON,																								1			
M278 WARHEAD (HA06)	THIO		,	•		2	5	5	0	10	0					7			14						21		1	TH		
WE10 WITH IETE (11/100)		SEN, U	JT				•			- 10																	† 			
		<u> </u>								FISC	AI YE	AR 1	998		<u> </u>						<u> </u>	FISC	AL Y	EAR	1999					
ITEM / MANUFACTURER	F	S	Q	D	В		1997			1 100	, , , , , ,			JDAR	VΕΔΕ	R 1998	2					1100		LEND		=ΔR 1	1999			
TI EWY WINDOWN ACTORER	Y	V	T	E	A	0	N	D	J	F	М	A	М	J	J	A	s	0	N	D	J	F	М	A	М	_/		Α	S	В
		С	Υ	L	L	C	O	E	A	E	A	P	A	U	U	Ü	E	C	0	E	A	E	A	P	A	U	U	U	E	A
						T	V	C	N	В	R	R	Y	N	Ĺ	G	P	Т	V	С	N	В	R	R	Y	N	L	G	P	-
Q3070-M278 WARHEAD (HA06)																														
THIOKOL	96	N	2.0	0.0	2.0			2.0																						
UNK	97	N	2.1	0.0	2.1													0.6	1.5											
UNK	98	N	5.0	0.0	5.0								Α														0.3	0.3	0.3	
UNK	99	N	3.0	0.0	3.0																				Α				1	3.0
TBD-MK67 WARHEAD (H893)																									l .					L
UNK	99	N	5.0	0.0	5.0																				Α		-	-	-	5.0
																											-	-	-	
																											-	+	-	1
										EISC	\	AR 2	000									EISC	M V	EAR :	2001					一
ITEM / MANUFACTURER	F	s	Q	D	В		1998			FISC	AL IL			IDAD	VEAG	R 200	<u> </u>					risc		LEND		= A D C	2001			
TIEM / MANUFACTURER	Y	S V	Т	E	A			_		_	1	1		IDAK	YEAR	1	Ī	_		_		1 _	1	1		=AR	2001	Т.	Т_	В
	l .	Č	Ϋ́	Ĺ	Ĺ	O C	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S	0 C	N O	D E	J A	F	M A	A P	M A	J	J	A U	S	A
						T	V	c	N	В	R	R	Y	N	L	G	P	T	V	c	N	В	R	R	Y	N	L	G	P	L
Q3070-M278 WARHEAD (HA06)																											一	+		┢
UNK	98	N	5.0	0.9	4.1	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4																0.0
UNK	99	N	3.0	0.0	3.0										0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3				0.0
TBD-MK67 WARHEAD (H893)			_													ļ.,						ļ.,	ļ.,					1	1	L.,
UNK	99	N	5.0	0.0	5.0										0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5				0.0
																											-	-	-	!
																												-	-	1
												1																		
Remarks: Production rates are	orovida	d by 4	ho ^	201/201	d in al.	do o	thar	00"	/iooo	, bur	_	-	1					-				-	_	-						
Remarks: Production rates are	provide	u by t	ne Aff	ny and	a II ICIU	ue 0	uier	serv	/ICES	s buy	ა.																			

DD Form 2454, JUN 86

UNCLASSIFIED

			BUDGET	ITEM JUST	TFICATION P-40	SHEET				DATE:	F	ebruary 199)8
APPROPRIATION/BUD	GET ACTIVI	TY						P-1 ITEM NO	MENCLATURE	-			-
PROCUREMENT O	F AMMUN	IITION, I	NAVY & MA	ARINE CORI	PS				MACHI	NE GUN AI	MMUNITION	(Y1Q4)	
Program Element for C	ode B Items:							Other Related	Program Elem	nents			
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total	
QUANTITY													
COST (In Millions)	13.6*	Α	\$11.2	\$5.2	\$9.4	\$8.8	\$9.3	\$10.5	\$10.9	\$11.2	Continuing	Continuing	
bulk and linked ca linked with the MK' Army's Single Man PGU-32 Semi-Arm Funds requested t M61/M197 gun sys for the design of ar	14 link, the ager for Co or Piercing hrough FY stems to ac a aluminum	se cartrion nvention High Ex 99 for ecept per cartridg	dges are us nal Ammunit cplosive Ince the Product rcussion or e case; and	ted in the M1 tion (SMCA) endiary (SAF Improveme electrically p (4) complete	(197 gun system using Converted was find the Program or the PIP or	tem in the A entional Ami ghting cartrid (PIP) are r unition; (2) d n PGU-33 ind	H-1 aircraft munition Wodge for the Cequired to: correct anor cluding verif	and in the Gorking Capita GAU-12 gun (1) restructunalies in PG cation of the	PU-2A gun Il Fund (CAV system in the Ire incorpora U 20MM am technical da	pod. All 20l VCF) standa e AV-8/B ain ation of a randomition; (3 ata package	MM ammunited prices. 2 reraft. adiation safe 3) conduct fee (TDP).	ion is procui 5MM funds a primer to n asibility dete	red by the are for the modify the ermination
*Reflects only FY appropriations.	95 fundin	g. Prior	to FY 95,	these prog	rams were	funded in t	he Weapon	s Procurem	ent, Navy ('	WPN) and	Other Procu	irement, Na	vy (OPN)
NAVY RESERVE				<u>FY96</u> \$0.4	FY97 \$0.3	FY98 \$0.3	FY99 \$0.3	FY00 \$0.3	FY01 \$0.3	FY02 \$0.3	FY03 \$0.3		

PAGE NO. 1

ITEM NO. 4

UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

	WEA	PONS	SYSTEM C P-5	OST ANALYS	IS				Weapon Sy	stem						DATE: February 1998
	PRIATION/BUDGET ACTIVITY JREMENT OF AMMUNITION, NA	AVY &	MARINE	CORPS						P-1 ITEM NC						
										MACHINE	E GUN A	AMMUNIT	ION (Y1Q4)		
			TOTAL COS	T IN THOUSAN	DS OF DO	LLARS										
COST	ELEMENT OF COST	ID	Prior		FY 1996			FY 1997			FY 1998				FY 199	9
CODE		Code	Years*** Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
				,												
	20MM LINKLESS PGU-27/B (A6		8,625		5.80	6,229	-	-	-	-	-	-	950,000	4.98 *	4,731	
	20MM LINK, TP, PGU-27/B (A772/A	A	1,371	25,148	6.76		399,706	6.80	2,718			1,639	126,204	7.74	977	1
	20MM PGU-28/B (A677)	A	-	132,508	16.55	2,193		-	-	128,839		1,653		-	- 0.45	
4150	25MM SAPHEI PGU-32 (A990)	Α	1,684	-	-	-		-	=	227,325	15.70	3,569	58,879	16.05	945	
4800	Integrated Logistics Support		52			91			60			70			71	
	Prod. Engr. SupNavy								1,717			1,446			1,121	
	Production Support-Army**		.,			1,545 -			-			97			139	
	Product Improvement Program	ogistics Support 52 SupNavy 1,210 Support-Army**							735			876			832	
4894	Gaging		55			-			-			-			-	
	 *Lower price due to combined bu	v with	Air Force													
	**Production Support is for Army	-			Transpo	rt & Industr	ial Stock Su	upport								
	***Reflects FY95 only, these prog								Procurem	ent, Navy	(WPN)	and Other	Procureme	nt Navy (0	DPN) accour	nts.
			40.000			44.000			F 000			0.050			0.040	
			13,622			11,228			5,230			9,350			8,816	ol I I

DD FORM 2446, JUN 86 P-1 SHOPPING LIST

ITEM NO. 4 PAGE NO. 2

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREM	ENI HISTO	JRY AND I	PLANNING EXHIBIT	I (P-5A)		Weapon System		A. DATE	Fabruson.	- 4000
3. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NON	 ENCLATURE			February	/ 1998
PROCUREMENT OF A		N. NAVY	& MARINE CORPS		0. 1 1112110	ienoem one				Q4
		,			MACHINE G	UN AMMUNITION				٠.
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
Q4010 20MM LINKLESS	PGU-27/B (A				1					
FY96	1073966	5.80	ARMY IOC (Rock Island, IL)	N/A	C/FP	LAKE CITY AAP/ (Independence, MO) PRIMEX, Marion IL	Apr-96	Oct-96	YES	
FY99	950000	4.98	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
Q4030 20MM LINK,TP, P	I GU-27/B (A7	772/A450)								
FY96	25148	6.76	ARMY IOC	N/A	C/FP	LAKE CITY AAP (Independence, MO)	Apr-96	Oct-96	YES	
FY97 (A450)	399706	6.80	ARMY IOC	N/A	C/FP	PRIMEX, Marion IL	Jun-97	Feb-98	YES	
FY98 (A450)	227925	7.19	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-98	Apr-99	YES	
FY99 (A450)	126204	7.74	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
Q4050 20MM PGU-28/B	 (A677)									
FY96	132508	16.55	ARMY IOC (Rock Island, IL)	N/A	C/FP	LAKE CITY AAP/ (Independence, MO)	Apr-96	Feb-97	YES	
FY98	128839	12.83	` '	N/A	C/FP	PRIMEX, Marion IL	Jun-98	Apr-99	YES	
Q4150 25MM SAPHEI PC	I 3U-32 (A990)								
FY95	125019	13.47	NAWC CL (China Lake, CA)	Sep-95	C/FP	ALLIANT TECH (Hopkins, MN)	Dec-95	Feb-98	YES	
FY98	227325	15.70	NAVAIR	Jan-98	C/FP	UNKNOWN	Apr-98	Apr-99	YES	
FY99	58879	16.05	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-99	Sep-99	YES	
D. REMARKS										

D. REMARKS

DD Form 2446-1, JUL 87

Pricing is provided by the Army and incorporates other services' buys.

P-1 SHOPPING LIST ITEM NO. 4 PAGE NO. 3

FY 1998/99 BUDGET PRODU			EDULE,	P-21														DATE						ary	199	8				
APPROPRIATION/BUDGET AC PROCUREMENT OF AMMUNI			' & MAR	INF CO	ORPS								We	apor	n Sys	stem		P-1	ITEN	M NC	MEN ΜΔ				ΝΔ	MM	IUN	ITIO	N	
TROOFILEMENT OF AMERICA	,		<u> </u>		J. (1 C		P	roduc	tion	Rate					Pr	ocure	men	t Lea	dtim	es	IVIA	<u> </u>			11 /	LIVIIV		11.0		
Item A678/A772 20MM LINKLESS	I AKE	Nam	anufactune and L	ocation			SR NK	1-8 15:			AX)60		T Pr Oct 6	1	Α	LT A	1		Initia Ifg P			eord fg PL			Tota		TH	Un Mea	it of asur	
ITEM / MANUFACTURER	F	s	Q	SCAL Y	EAR 19		ID A D	YEAR	4000					I	FISC		EAR		- AD 40				_							
HEW/ MANUFACTURES	Y	V C	T Y	D E L	B A L	0 C T	1997 N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J	A U G	S E P	B A L
Q4010-20MM LINKLESS PGU-27/B (A6	678)																													
LAKE CITY AAP/PRIMEX	96	N	1,074.0	678.0	396.0			396.0																						0.0
UNKNOWN	99	N	950.0	0.0	950.0																			Α						950.0
Q4030-20MM LINK, PGU-27/B (A772/A	450)																													
LAKE CITY AAP/PRIMEX	97	N	399.7	0.0	399.7					144.0	144.7	111.0																		
UNKNOWN	98	N	227.9	0.0	227.9							Α												45.0	45.0	45.0	46.5	46.4		0.0
UNKNOWN	99	N	126.2	0.0	126.2																			Α						126.2
				_						FIS	SCAL Y	EAR 20									1	FISC		EAR 2						-
ITEM / MANUFACTURER	F Y	S V	Q T	D E	B A		1999	T			T	T	T	IDAR	YEAR	T	т	T	Т	Т				ALEND	T	EAR 20	001 •	т	Т	В
	'	Č	Y	L	Ĺ	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	U U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S E P	A L
Q4010-20MM LINKLESS PGU-27/B (A6																														
UNKNOWN	99	N	950.0	0.0	950.0		-	-				79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	80.0	80.0					-	-	0.0
Q4030-20MM LINK, PGU-27/B (A772/A	450)		***************************************																											
UNKNOWN	99	N	126.2	0.0	126.2							50.0	50.0	26.2																0.0
Remarks: Production rates are p	provide	d by t	he Army	and in	clude	othe	r ser	vices'	buys	S.	1								1					<u> </u>	See .		<u> </u>		1	

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

											DATE																			
FY 1998/99 BUDGET PRODUCT	TION	SCHE	DULE,	P-21																		Fe	bru	ary	199	8				
APPROPRIATION/BUDGET ACT	TIVITY	,					Wea	pon	Sys	tem		P-1	ITEM	NC	ME	NCL	ATI	JRE												
PROCUREMENT OF AMMUNITI	ON, N	IAVY	& MAR											MΑ	CH	IIN	E Gl	JN A	۹MN	JUN	IITIC	N								
							Pro	ducti	on F	Rate					Pro	cure	men	t Lea	adtim	es										
		Ma	ınufactu	rer's								AL	T Pri	ior	AL ⁻	T Aft	er		nitial			eord						Uni	t of	
Item		Name	Name and Location MSR 1-8-5 MAX									to	Oct	1	C	Oct 1		M	fg PL	Τ	Mf	g P	LT		Tota			Mea	sure	!
1077 001414 0017																								10		-				
		KE CITY AAP/PRIMEX UNK 255 510 LIANT TECH UNK 80 160											6 6			6 6			12 12						18 18		TH TH			
1990 25WW PGU-32	ALLIA	IANT TECH										О			0			12						10		III				
										FISC	AL YE	AR 19	98									FIS	CAL	YEAR	1999					
ITEM / MANUFACTURER	F	S	Q	D	B A	1997 CAL							DAR `	YEAR	1998								С	ALENE	DAR Y	EAR 1	999			
	Υ	C V	T Y	E L	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	A	М	J	J	A	S	B A	
		C	'	_	L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U	E P	L
Q4050-20MM PGU-28/B (A677)																														
LAKE CITY AAP/PRIMEX LAKE CITY AAP/PRIMEX	96 98	N N	132.5 128.8	53.0 0.0	79.5 128.8			79.5						Α										32.2	32.2	32.2	32.2	 		0.0
EXILE OFFE FOR THE PROPERTY OF		- 1	120.0	0.0	120.0									-/-										02.2	02.2	02.2	02.2			0.0
Q4150-25MM PGU-32 (A990)																														
ALLIANT TECH	95	N	125.0	0.0	125.0					75.0	50.0																	\vdash		0.0
UNKNOWN	98	N	227.3	0.0	227.3					75.0	30.0	Α												50.0	50.0	50.0	50.0	27.3		0.0
UNKNOWN	99*	N	58.9	0.0	58.9																			Α					58.9	0.0
										FISC		AR 20										FIS		YEAR						
ITEM / MANUFACTURER	F Y	S V	Q T	D E	В		1999					CALEN		T	2000								1	ALENI		EAR 2	001			В
	Y	C	Y	L	A L	0 0	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	Α
						Т	v	С	N	В	R	R	Y	N	L	G	Р	Т	V	С	N	В	R	R	Y	N	L	G	Р	L

Remarks: *Option to FY98 procurement.

Production rates are provided by the Army and include other services' buys.

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

311/244 ITEM NO 4 PAGE 5 Exhibit P-21 Production Schedule

DD Form 2454, JUN 86

UNCLASSIFIED

			BUDGET	TITEM JUST	TIFICATION	SHEET				DATE:			
				P-4	10							FEBRUARY 1998	
APPROPRIATION/BUD	GET ACTIVI	TY						P-1 ITEM NO	MENCLATURE				
PROCUREMENT O	F AMMUN	ITION, I	NAVY & MA	RINE CORF	PS			Practice Bo	mbs (Y1Q1)			
Program Element for Co	de B Items:							Other Related	Program Elem	nents			
B.A.1 - Navy Ammu	unition												
-	Prior	ID										То	
	Years *	Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	Complete	Total
QUANTITY													
COST													
(In Millions)	\$12.7		\$19.5	\$9.3	\$50.6	\$40.1	\$36.1	\$37.0	\$36.7	\$37.5	Cont	Cont	Cont

Practice Bombs are a low cost alternative to expenditures of live bombs for training. The MK 76 simulates an unretarded MK 80 series bomb. It is a 25 lb. cast iron shape with a breach hole for a MK 4 or CXU-3 signal which provides a smoke signal or flash upon impact. The BDU-48 simulates retard bombs. It is a 10 lb.thin cased cylindrical bomb with a breach hole for a MK4 or CXU-3 Signal. The BDU-45 NTP and MK 83 Inert are full-sized Practice Bombs. They are MK 80 series bomb bodies filled with an inert material and have the same weight, size, center of gravity and ballistics as a live bomb. The BDU-45 uses a CXU-4 signal cartridge for spotting location and simulates a 500 lb G. P. Bomb. These items are procured through the Army Single Manager for Conventional Ammunition using Conventional Ammunition Working Capital Fund standard prices.

The Laser Guided Training Round (LGTR) is procured directly by the Navy. This round enhances aircrew proficiency for more effective use of the PAVEWAY II Laser Guided Bomb (LGB) precision guided weapon which requires coordination between the aircrew and the laser designator. Development of delivery options and multi-aircraft tactics require extensive cost effective training. The Laser Guided Training Round (LGTR) is capable of replicating the kinematics of LGBs. It provides an increased basic training capability and greatly enhances follow-on advanced tactics development. The LGTR is suitable for launch from all Navy and Marine Corps aircraft used to deploy LGBs. LGTRs provide actual hardware for aircrew and tactics development at a greatly reduced cost while maintaining LGB stockpiles.

Procurement of MK 83 Inert, MK 84 inert units and LGTRs are planned in FY 98 and FY 99, respectively.

The FY 98/99 Production Engineering Support and Integrated Logistics Support are continuing annualized efforts associated with ongoing procurements of the Practice Bombs associated Signal Cartridge, BDU-45/B, MK 76 and LGTR. These efforts include maintenance of PDP (Procurement Data Packages), participation in post award conferences, first article and quality assurance testing, ECP reviews/comments/recommendations, technical manual updates, evaluations of engineering change proposals, and responses to fleet inquiries.

96 97 98 99 00 01 02 03 Navy Reserves 1.2 0.6 3.3 2.6 2.6 2.6 2.6 2.6

P-1 SHOPPING LIST

ITEM NO. 5 PAGE NO. 1

CLASSIFICATION:

CLASSIFICATIO UNCLASSIFIED

	WEA	PONS S	YSTEM CO	OST ANA	LYSIS				Weapon Sys	stem								DATE: Februa	ry 1998
PROC	PRIATION/BUDGET ACTIVITY UREMENT OF AMMUNITIO	N, NA\		RINE C	ORPS							ATURE/SU	BHEAD						<u>. y</u>
B.A. 1	- Navy Ammunition									Practice	Bombs	(Y1Q1)							
			TOTAL CO	ST IN THO	DUSANDS O	F DOLLARS													
COST	ELEMENT OF COST	ID	Prior						FY 1996			FY 1997			FY 1998			FY 1999	
CODE		Code	Years * Total Cost	Units	Unit Cost	I I-	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Coat	Total Cost	Units	Unit Coat	Total Cost	Units	Unit Cost	Total Co.
			Total Cost	UTIILS	Unit Cost		Total Cost	UTIILS	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	UTIILS	Offic Cost	Total Co
Q1010	MK 76(E973)	А								0			0	200,184	20.37	4,078	273,757	19.28	5,27
Q1040	BDU 45/B (F017)	А						11,298	813.24***	9,188	3,078	706.27	2,174	10,349	932.11	9,647	21,063	932.11	19,63
Q1050	MK 89 Adapter	А								0			0			0			(
Q1TBD	MK 84 Inert (MOD 7) NTP	Α								0			0	3,859	2500.00	9,648			
Q1300	Laser Guided Training Round	Α						1,889	3,354.16	6,336	815	5,600.00	4,564	2,569	5,600.00	14,386	1,369	4,954.00	6,78
Q1TBD	MK 83 Inert (E511)	Α								0			0	5433	1,464.72	7,958	1,440	2,258.82	3,253
Q1800	ILS									627			436			400			400
Q1830	PES									2,784			1,602			2,060			3,49
Q1831	PES/ARMY									0	٤		0			1,825			69
Q1850	PIP									300			300			350			35
Q1894	Gaging									245			225			250			25
*Unit pri	 ce for the FY 96 BDU-45/B procur 	ement is	the averag	ge of 2 co	ntracts (8,14	 42 @ \$854.4 	48/3,156 u	ınits @ \$7	06.27)										
*FY 95 o	 nly. Prior to FY 95, Program was bu	 udgeted																	
	TOTAL M 2446, JUN 86		12,592 HOPPING L							19,480			9,301			50,602 CLASSIFIC			40,13

P-1 SHOPPING LIST ITEM NO. 5

PAGE NO. 2

UNCLASSIFIED

BUDGET PROCUREN	MENT HISTO	ORY AND P	LANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
									Februa	ry 1998
B. APPROPRIATION/BUDGET					C. P-1 ITEM NOM				SUBHEAD	
PROCUREMENT OF		ON, NAVY &	MARINE CORPS			Practice Bombs			Y1	Q1
B.A.1 - Navy Ammuni	ition						_			T
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
Q1010 MK 76 (E973)										
FY 98	200,184	20.37	Rock Island, IL	TBD	C/FP	UNKNOWN	Apr 98	Jun-99	YES	
FY 99	273,757	19.28	Rock Island, IL	TBD	C/FP	UNKNOWN	Apr 99	Jun-00	YES	
Q1040 <u>BDU-45/B (F01</u>	 <u>7)</u>									
FY 96	11,298	813.24	Rock Island, IL	Aug 95	SS/FP	MCALESTER, AAP (MCALESTER, OK)	Sep-96	Jun-98	YES	
FY 97	3,078	706.27	Rock Island, IL	TBD	SS/FP	MCALESTER, AAP	Apr 97	Oct-98	YES	
FY 98	10,349	932.11	Rock Island, IL	TBD	SS/FP	MCALESTER, AAP	Apr-98	Jun-99	YES	
FY 99	21,063	932.11	Rock Island, IL	TBD	SS/FP	MCALESTER, APP	Apr 99	Jun-00	YES	
Q1300 Laser Guided T	์ <u>Training Ro</u> u	ınd								
FY 95	1,800	3,650.06	NAVAIR	Jan 97	SS/FP	LORAL	May-97	Jun-97	YES	
FY 96	1,889	3,354.16	NAVAIR	Jan 97	SS/FP	LOCKHEED-MARTIN	May-97	Jun-97	YES	
FY 97	815	5,600.00	NAVAIR	TBD	TBD	UNKNOWN	Jun-98	Feb-99	YES	
FY 98	2,569	5,600.00	NAVAIR	TBD	TBD	UNKNOWN	Jun-98	Feb-99	YES	
FY 99	1,369	4,954.00	NAVAIR	TBD	C/FP	UNKNOWN	Apr 99	Jan 00	YES	
Q1TBD Mk 83 Inert										
FY 98	5,433	1,464.72	Rock Island, IL	TBD	SS/FP	MCALESTER, AAP	Apr 98	Jun-99	YES	
FY 99	1,440	2,258.82	Rock Island, IL	TBD	SS/FP	MCALESTER, AAP (MCALESTER, OK)	Apr 99	Jun-00	YES	
Q1TBD MK 84 INERT	NTP					(
FY 98	3859	2,500.00	Rock Island, IL	TBD	SS/FP	MCALESTER, AAP	Jun 98	Aug 99	YES	
D. REMARKS										

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 5 PAGE NO. 3

^{1.} For the FY 96 BDU-45 procurement: (a) IMCO, Garland, Texas bomb bodies manufacturer, LAP (Load/Assemble/Pack) at McAlester.

⁽b) Unit price for the FY96 procurement is the average of 2 contracts (8142 units @ \$854.48/3156 units @ \$706.27).

^{2.} For the LGTR procurement: (a) FY95/96 is a combined buy to LORAL. Total cost includes \$3,241K to buy steel containers.

⁽b) Higher unit cost in FY 98/99 reflect introduction of the LGTR II.

FY 1998/99 BUDGET PROD	UCTIO	N SCI	HEDUL	LE, P-	-21													DATE		Febru	ary 19	98								
APPROPRIATION/BUDGET	ACTIVI	Τ\											V	Veapo	n Sys	tem		P-1 I	TEM N	OME	NCLA ⁻	TURE								
PROCUREMENT OF AMMUI	NOITIN	i, NAV	Y & M	ARIN	E COF	RPS																Prac	ctice I	Bomb	s (Y1	(Q1)				
							Pro	duct	tion F	Rate						Proc	ureme	ent Le	adtime	es										
		Mar	nufactu	urer's								Α	LT P	rior	Α	LT Aft	ter		Initia	l	F	Reord	er					U	nit of	
Item		Name	and L	ocatio	n	M	SR	1-	8-5	M	AX	l t	to Oct	t 1		Oct 1			Mfg Pl	_T	N	/lfg PL	_T		Total	i		Мє	easure	Э
BDU-45			ER (O			45	00		00	160						6			17			J			23				USAN	
LGTR			D-MAF		LORAI		NK		00		NK					6			9						15				ACH	10
MK 76		NOW					000		000	800						6			14						20		T۱		BULK	(TH)
MK 83 Inert			ER (O	K)			00		00	90						6			17						23				USAN	
				/																									00/11	
		$\overline{}$	$\overline{}$		1				EISC	`AI VE	AR 19	nΩΩ										EIS	CAL YE	AD 100	O.					
ITEM / MANUFACTURER	F	S	Q	D	В		1997		1 130	/AL 1L	AIX IS			CALENI	DAR VE	ΔR 1008	2				T	1 10				AR 1999				-
TIEW, WANTON ACTONER	Y	V	T	E	A	0	N	D	<u> </u>	F	М	Α	М	J	J	AK 1990	S	0	N	D	J	F	М	A	M	J	J	Α	S	В
		С	Υ	L	L	c	o	E	A	E	A	P	A	Ü	Ü	Û	E	c	0	E	A	E	A	P	A	Ü	Ü	Ü	E	Α
						Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	L
MK-76 (E973)		N																												
UNKN OWN	98		200.2		200.2							Α														17.0	17.0	17.0	17.0	
UNKNOWN	99		273.8	0	273.8									-										Α		<u></u>	<u> </u>		<u> </u>	273.8
BDU-45/B (F017)		N																											ļ	
MCALESTER	96		11.3	0	11.3									4.5	4.5	2.3														0.0
MCALESTER	97		3.1	0	3.1		ļ							-				1.0	1.0	1.1										0.0
MCALESTER	98	-	10.3	0	10.3							Α														0.9	0.9	0.9	0.9	6.7
MCALESTER	99		21.1	0	21.1																			Α		-		-		21.1
		-																_										-		
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		+-	+-			1			EISC	AL VE	AR 20	000									-	EIC	CAL YE	AD 200	1		ь—			
ITEM / MANUFACTURER	F	S	Q	D	В	1999			FISC	ALIE	AR ZU	JUU		CALENI	DAD VE	AP 2000	······	J			I	гю				AR 200	1			-
TIEW/WANDI ACTORER	Y	V	T	E	A	0	N	D	J	F	М	Α	М	J	J	AIX 2000	s	0	N	D	J	F	М	A	M	J	J	Α	S	В
		Ċ	Y	L	L	C	0	E	A	E	A	P	A	Ü	Ü	Û	E	C	0	E	A	E	A	P	A	Ü	Ü	Ü	E	Α
		<u> </u>				Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	L
Mk 76 (E973)														ļ																
UNKN OWN	98		200.2			17.0	17.0	17.0	17.0	17.0	17.0	17.0	13.2	-																0.0
UNKNOWN	99		273.8	0.0	273.8									22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	31.8				ļ	0.0
							ļ															ļ						-	-	
DDLL 45/D (5047)						ļ	-	-	-					-			-					-	-						<u> </u>	
BDU-45/B (F017)			ļ				-							-			ļ					ļ	-			-		-	-	ļ
MCALESTER	98	-	10.3	3.6	6.7	0.0	0.0	0.0	0.9	0.0	0.0	0.9	0.4				-					-						-	-	0.0
MCALESTER MCALESTER	98	-	21.1			0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.3	-		+	+	0.0
WICALLSTER	33		41.1	0.0	Z1.1			-						1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			+	+	0.0
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FY 1998/99 BUDGET PROD	1998/99 BUDGET PRODUCTION SCHEDULE, P-21 ROPRIATION/BUDGET ACTIVITY CUREMENT OF AMMUNITION, NAVY & MARINE CORPS																	DATE		Febr	uary 19	998								
				•									W	eapo	n Sy	stem		P-1			MENC		RE							
PROCUREMENT OF AMMU	NITION.	NAV	Y & M	ARINE	CORP	S									,							RACT		3OMB	S (Y	1Q1)			
								Produc	tion F	Rate						Pro	curem	nent L	eadt	imes					- (<u>, </u>			
		М	anufac	turer's						10.10		ΑI	TP	rior	Α	LT A			Initia		R	eorde	r					Un	it of	
Item	Name and Location MSR 1-8-5 MAX												-			Oct			lfg Pl	-	_	lfg PL	-		Total	ı		Mea		
LGTR				RTIN(I		UN		300	_		JNK	- "	, 00	, L I		6	<u> </u>	IV	9	-'	IV	iig i L	<u> </u>		15				CH	
					UNAL											_											Η,			
MK 83 Inert			TER (C			180		360			000	-				6		<u> </u>	17						23			HOL		
MK 84 Inert	MCA	LES	TER (C	JK)		180	U	360	U	9	000					6			17						23			THC)US/	AND
									_		FISCAL	YEAF	R 199	8							_	FISCA	L YEAI	R 1999						
ITEM / MANUFACTURER	F	S	Q	D	В	1997						CA	LENE	DAR YE	EAR 1	998							CAL	ENDAR	YEAR	1999				
	Υ	V	Т	E	Α	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	В
		С	Υ	L	L	С	0	E	Α	E	Α	Р	Α	U	U	U	Е	С	0	Е	A	Е	Α	Р	Α	U	U	υ	Е	A L
						Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	
Laser Guided Training		N																												
LOCKHEED-MARTIN	96		1889	628	1261	157	157	157	157	157	157	157	162																	0
LOCKHEED-MARTIN	97		815	0	815									Α								68	68	68	68	68	68			271
UNKNOWN	98		2569	0	2569									Α								214	214	214	214	214	214	214		857
UNKNOWN	99		1369	0	1369																			Α						1369
MK 83 Inert		Ν																												
MCALESTER	98		5.4	0	5.4							Α														1.8	1.8	1.8		0
MCALESTER	99		1.4	0	1.4																			Α						1.4
MK 84 Inert		Ν																												
MCALESTER	98		3.9	0	3.9									Α														1.3	1.3	1.3
								FISC	AL YE	AR 2000												FISCA	L YEAI	R 2001						
ITEM / MANUFACTURER	F	S	Q	D	В	1999)					CA	LENE	DAR YE	AR 2	000							CAL	NDAR	YEAR	2001				
	Υ	V	Т	E	Α	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	.1	F	М	Α	М	J	J	A	S	В
		С	Υ	L	L	C	0	Ē	A	E.	A	P	A	Ŭ	Ü	Ü	E	c	0	E	A	E.	A	P	A	Ü	Ü	n	E	A L
						Т	V	С	N	В	R	R	Y	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L	G	Р	_
Laser Guided Training Round		1										t																		
LOCKHEED-MARTIN	97		815	544	271	68	68	68	67																					0
UNKNOWN	98		2569	1712	857	214	214	214	215																					0
UNKNOWN	99		1369	0	1369				114	114	114	114	114	114	114	114	114	114	114	115										0
3			1220	-									1	l		1														
MK 83 Inert																														
MCALESTER	99		1.4	0.0	1.4									1.4																0
MK 84 Inert																														
MCALESTER	98		3.9	2.6	1.3	1.3						1																		0

 DD Form 2445, JUL 87
 Previous editions are obsolete
 P-1 SHOPPING LIST

 311/244
 ITEM NO 5 PAGE 5
 Exhibit P-21 Production Schedule

UNCLASSIFIED

			BUDGET	TITEM JUST	TIFICATION	SHEET				DATE:			
				P-4	10						FEBRUAR'	Y 1998	
APPROPRIATION/B	BUDGET ACTIVI	TY					P-1 ITEM NO	MENCLATURE					
PROCUREMENT	T OF AMMUN	ITION, I	NAVY & MA	RINE CORF	PS			Cartridges a	and Cartridge	Actuated De	evices (CAR	TS/CADS) (Y1	Q8)
Program Element for	r Code B Items:						Other Related	l Program Elen	nents				
B.A.1 - Navy Am	nmunition												
	Prior	ID										То	
	Years *	Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		Complete	Total
QUANTITY													
COST													
(In Millions)	\$15.8		\$17.5	\$20.6	\$23.8	\$26.0	\$27.1	\$27.6	\$28.1	\$28.8		Cont	Cont

Escape System/Life Support Devices

These items, such as safety/arming devices, sequence controls, shielded mild detonating cord, gas generators, initiators, thermal batteries, etc, are used in aircraft emergency escape systems. The total number of devices installed varies with the type of aircraft, e.g., F-14/A(273), F/A-18(136), S-3(105), EA-6B(45), T-45(76), T/AV-8(90) and AH-1(27). These explosives have finite service lives and are replaced during scheduled maintenance. An aircraft may be grounded if a single one of these items does not meet the standard. Life support devices such as the Sea Water Activated Release System and the FLU-8B/P automatic life vest inflator are essential to crew survival after ejection. The FY 99 budget request also includes funding for the procurement of NACES items, JAU-52/A's and BBU-57/A Cutters.

Weapons/Stores Release Cartridges

These items are used to eject weapons/stores from aircraft. The JAU-22 and other miscellaneous impulse cartridges are used to eject sonobuoys from aircraft. The FY 99 budget request includes funding for the procurement of CCU-107 Impulse Cartridges and JAU-22/B Initiator Cartridges.

Integrated Logistics Support

Integrated Logistics Support (ILS) provides for ILS planning, maintenance standardization, supply support, technical data programs, and generation and implementation of a traceability system.

Production Engineering Support

Production Engineering Support (PES) efforts include: review of procurement requests, waivers and deviations; technical support of Lot Acceptance Testing/First Article Testing; and conformance with new EPA regulations.

Product Improvement Programs

Product Improvement Programs (PIP) are conducted as part of a continuing effort to correct deficiencies in the areas of safety, reliability, maintainability, and producibility and to increase the service lives of CARTS and CADS.

*Reflects only FY 95 funding. Prior to FY 95, this program was funded in the Other Procurement, Navy appropriation.

P-1 SHOPPING LIST

CLASSIFICATION:

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DD Form 2454, JUN 86

	WE	APO		M COST A	ANALYSIS					Weapon	System					DATE:	FEBRUARY	1998
PROC	PRIATION/BUDGET ACTIVITY UREMENT OF AMMUNITION, N	AVY			PS				ID Code		NOMENCLA							
B.A. 1	- Navy Ammunition			TOTAL C	OST IN THO		F DOLLAR:	<u> </u>		Cartridg	es and C	artridge <i>F</i>	Actuated	Devices				
COST	ELEMENT OF COST	ID Code	Prior Years * Total Cost	Units		Total Cost	Units	FY 1996 Unit Cost	Total Cost	Units	FY 1997 Unit Cost	Total Cost	Units	FY 1998 Unit Cost	Total Cost	Units	FY 1999 Unit Cost	Total Cos
Q8090	STORES RELEASE CCU-107 Imp Ctg (MT95) JAU-22/B Init. Ctg. (MF64) SAFETY IBARS Gas Generator (IBA1) Thermal Battery (CWDR) PCU-48/B Parachute BBU-57/A Cutter (SR95) JAU-52 (MJ91) Navy Aircrew Common Ejection Seat Misc Devices Under \$500K Integrated Logistics Support Production Engineering Support Quality Assurance Product Improvement Program Acceptance Testing	A A A A A A A					517 110 340	3,106.38 7,817.00 3,179.00	0 0 1,606 0 860 1,081 673 7,186 1,207 2,390 373 1,342 816	72 183	13.41 2,871.00 7,853.51 2,759.56	0 3,126 0 273 0 565 505 627 9,011 1,521 2,315 382 1,373 878	121		827 2,605 0 0 0 396 1,251 9,600 1,768 2,498 328 3,550 987	160,000 244 46		83
	TOTAL		\$15,804						17,534			20,576			23,810			25,98

 DD FORM 2446, JUN 86
 P-1 SHOPPING LIST
 CLASSIFICATION:

 ITEM NO.
 6
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 2

*FY 95 only. Prior to FY 95, Program was under OPN funding.

UNCLASSIFIED

BUDGET PROCURE	MENT HIST	ORY AND	PLANNING EXHIE	BIT (P-5A)		Weapon System		A. DATE		
									FEBRU	ARY 1998
B. APPROPRIATION/BUDGE					C. P-1 ITEM NO				SUBHEAD	
PROCUREMENT OF		ON, NAVY	& MARINE CORP	S	Cart	ridges and Cartridge Actuate	d Device	es	Y1	Q8
B.A.1 - Navy Ammur	<u>ition</u>									
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABL
STORES RELEASE										
Q8TBD CCU-107 Imp C	tg (MT95)									
FY 98	180,000	4.59	NAVICP	TBD	C/FP	UNKNOWN	Apr 98	Apr 99	YES	
FY 99	180,000	4.69	NAVICP	TBD	C/FP	UNKNOWN	Apr-99	Apr 00	YES	
Q8TBD JAU-22 Init Ctg	g (MF64)									
FY 97	233,025	13.41	NAVICP	8/15/96	C/FP	ACTION/AMTEC CORP (JONESVILLE,WI /ATALIN,PA)	Apr-97	Apr 98	YES	
FY 98	190,000	13.71	NAVICP	TBD	C/FP	UNKNOWN	Apr-98	Apr 99	YES	
FY 99	160,000	14.00	NAVICP	TBD	C/FP	UNKNOWN	Apr-99	Apr 00	YES	
SAFETY							•			
Q8060 Thermal Battery	(CWDR)									
FY 96	517	3106.38	NAVAIR BUY	TBD	SS/FP	MSA	Apr-96	Apr 97	YES	
FY 97	95	2871.00*	NAVAIR BUY	TBD	SS/FP	MSA	Apr-97	Apr 98	YES	
FY 99	244	3405.46	NAVAIR BUY	TBD	SS/FP	MSA	Apr-99	Apr-00	YES	
Q8TBD BBU-57/A Cutte	r (SR95)						•			
FY 96	110	7817.00	NAVICP	12/29/95	C/FP	NORTHROP (HAWTHORNE, CA.)	Aug-96	Sept-97	YES	
FY 97	72	7853.51	NAVICP	OPTION EXCERCISED	C/FP	NORTHROP	Jan 97	Apr-98	YES	
FY 99	46	8188.85	NAVICP	TBD	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
Q8120 JAU-52/B Init. C	tg (MJ91)						•			
FY 96	340	3179.00	NAVICP	OPTION EXCERCISED	SS/FP	ROCKET RESEARCH	Aug-96	Mar-98	YES	
FY 97	183	2759.56	NAVICP	12/26/96	SS/FP	ROCKET RESEARCH	Jun-97	Apr 99	YES	
FY 98	121	3276.39	NAVICP	TBD	SS/FP	ROCKET RESEARCH	Apr-98	Apr 99	YES	
FY 99	188	3346.02	NAVICP	TBD	SS/FP	ROCKET RESEARCH	Apr-99	Apr 00	YES	
							4			
D REMARKS				<u> </u>		1				

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 6 PAGE NO. 3

^{*} Due to VECP non-recurring cost FY96 unit cost was higher. Unit prices are negotiated.

FY 1998/99 BUDGET PROD	UCTION	SCH	EDULE	E, P-2	,													DATE								FE	BRI	UARY	1998	
APPROPRIATION/BUDGET /				,									We	eapor	n Syst	tem			TEM											
PROCUREMENT OF AMMUN	NITION,	NAVY	' & MA	RINE	CORP	:												C	artrid	ges a	nd C	artr	idge	Act	uate	d Dev	vice	s (CA	RTS/	CADS
							Pr	oduct	ion R	ate					Р	rocur	emer		dtime									•		<u> </u>
		Ma	nufacti	urer's					101111			Δ	LT Pr	ior		LT Af			Initial		R	eord	ler						Jnit (nf .
Item			e and L		'n	1 1/4	SR	1_9	8-5	1.4	AX		o Oct			Oct 1	-		/Ifg PL			lfg P			Tot	al			leasi	
JAU-52/B Init. Ctg (MJ91)	Dook	et Res		_ocalic	111		NK	15		35		U	U OCI	1		6		IV	12	- !	IV	ily F	<u> </u>		18		-	- 11	Each	
		THROI					NK									_														
BBU-57/A Cutter (DF03)		IHKUI	<u> </u>						NK		NK					6			12						18				Each	
Thermal Battery (CWDR)	MSA	1014/11					NK		NK		NK					6			12						18				Each	
CCU-107 Imp. Ctg. (MT 95)	UNK		ITEC C	NODD			NK		VK.		NK					6			12						18				ousar	
JAU-22/B Init Ctg (MF64)	ACTIO	JN/AIV	TIECC	URP		UI	NK	UI	٧K	U	NK					6			12						18	i		۱h	ousar	nds
								F	ISCAL	YEAR	1998											FIS	SCAL Y	YEAR	1999					
ITEM / MANUFACTURER	F	S	Q	D	В	1997						•	CAL	ENDAR	YEAR	1998								CALE	NDAR	YEAR	1999)		
	Υ	V	T	E	A	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J		J A		
		С	Υ	L	L	C T	O V	E	A	E B	A	Р	A Y	U	U	U	E P	C T	0 V	E	A	E	A R	P R	A			UL		: 1
CCU 107 Imp. Ctg. (MT 05)		N				_	V	C	N	В	R	R	Y	N	<u> </u>	G	Р		V	C	N	В	K	K	Y	N	-	L 0	+	
CCU-107 Imp. Ctg. (MT 95) Unknown	98	IN	180	0	180							A								-				15	15	15		15 1	5 1	5 90.0
Unknown	98		180	0	180							A												15 A	10	15	+	10 1	, 1	180.0
JAU-22/B Init Ctg (MF64)	99	N	100	<u> </u>	100		-			-	-	l				-					l		-	_^		+	+	_	+	100.0
Action/AMTEC Corp	97	IN	233.0	0	233.0						-	18.6	18.6	18.6	18.6	18.6	18.6	10.0	19.0	10.0	10.0	10.0	26.4			-			+	0.0
Unknown	98		190	0	190							A	10.0	10.0	10.0	10.0	10.0	13.0	13.0	13.0	13.0	13.0	20.4		16	0 16.	0 1	6.0 16	0 16	
Unknown	99		160	0	160			-			-										-	-	-	Α		0 10.	0 1	0.0 10	0 10	160.0
Thermal Battery (CWDR)	33	N	100	<u> </u>	100						-											-	-			-		-		100.0
MSA	96		517	235	282	47	47	47	47	47	47					-				-			-	-	-	-			-	0.0
MSA	97		95	0	95	71	T'	71	-T/	7/		8	8	8	8	8	8	8	8	8	8	8	7			_			+	0.0
MSA	99		244	0	244						-		-			-				-			 ' -	Α		-			_	244.0
BBU-57/A Cutter (DF03)	- 00	N		- Č																	ļ			 			_		-	211.0
Northrop	96		110	16	94	16	16	16	16	16	14	-											<u> </u>		-	-			-	0.0
Northrop	97		72	0	72						 	6	6	6	6	6	6	6	6	6	6	6	6		-	_		-	_	0.0
Unknown	99		46	0	46							Ť									Ť		-	Α						46.0
JAU-52 (MJ91)		N					-													-		-	 		-	_		-	_	
Rocket Research	96		340	0	340						49.0	49.0	49.0	49.0	49.0	49.0	46.0												_	0.0
Rocket Research	97		183	0	183																			15	15	15	;	15 1	5 1	
Rocket Research	98		121	0	121							Α												10				10 1		
Rocket Research	99		188	0	188											İ								Α						188.0
							•	F	ISCAL	YFAR	2000	•	*									FIS	SCAL \	YFAR	2001					
ITEM / MANUFACTURER	F	s	Q	D	В	19	999	<u>'</u>	100/12	1 = 7 (1)	2000		CAL	FNDAR	YEAR	2000					T		307 (L			YEAR	2001			
	Y	V	T	E	A	0	N	D	J	F	М	Α	М	J	J	A	S	0	N	D	J	F	М	А	М	J		J A		В В
		С	Υ	L	L	С	0	E	Α	E	Α	Р	Α	U	U	U	E	С	0	E	Α	E	Α	Р	Α			υ ι		
						T	V	С	N	В	R	R	Υ	N	L	G	Р	T	V	С	N	В	R	R	Y	N		L C	F	, -
CCU-107 Imp. Ctg. (MT 95)		N														ļ				ļ		ļ	-							
Unknown	98		180	90	90	15	15	15	15	15	15		ļ			L				ļ				.					_	0.0
Unknown	99	.	180	0	180		-	-			-	15	15	15	15	15	15	15	15	15	15	15	15	 	-		_		-	0.0
JAU-22/B Init Ctg (MF64)		N	100 -		010	40.0	10.5	10.6	10.6	10.5	116		-			-				-		-	-	ļ			_	_	-	
Unknown	98		190.0		94.0	16.0	16.0	16.0	16.0	16.0	14.0					1-	-		- 1-	ļ.,-	-,-		 	 		_	-		_	0.0
Unknown	99	ļ.,.	160.0	0	160.0							13	13	13	13	13	13	13	13	13	13	13	17	1		-	\perp			0.0
Thermal Battery (CWDR)		N	244		244		-	-			-												-	 	-		_	_	-	
MSA	99	k i	244	0	244							20	20	20	20	20	20	20	20	20	20	20	24	1		_	+		+	0.0
BBU-57/A Cutter (DF03)		N	40	_	40	ļ	-	-		-	-	_	1			1	-		4	1	_	1	-	 	-	-		_	-	- 0.0
Unknown	99		46	0	46						-	4	4	4	4	4	4	4	4	4	4	4	2		-	_	\perp			0.0
JAU-52 (MJ91)		N	400			45	45	45	45	4.5	40		-			<u> </u>				-		-	-						-	
Rocket Research	97		183	90	93	15	15	15	15	15	18										1			1		-	+		-	0.0
Rocket Research Rocket Research	98		121 188	60 0	61 188	10	10	10	10	10	11	16	16	16	16	16	16	16	16	16	16	16	12		-	-				0.0
Rocket Research	99		100	U	100						1	10	10	10	16	10	16	10	10	16	10	10	1 12							0.0

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

311/244 ITEM NO 6 PAGE 4 Exhibit P-21 Production Schedule

UNCLASSIFIED

		BU	DGET ITEM	I JUSTIFICA	TION SHEE	T				DATE:		
				P-40							FEBRUARY	′ 1998
APPROPRIATION/BU	JDGET ACTIVI	TY						P-1 ITEM NOI	MENCLATURE			
PROCUREMENT	OF AMMUN	ITION, I	NAVY & MA	RINE CORP	S			Aircraft Es	cape Rocke	ts/Catapults	s (Y1Q9)	
Program Element for	Code B Items:							Other Related	Program Elem	nents		
B.A.1 - Navy Amı	munition											
	Prior	ID									То	
	Years *	Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	Complete	Total
QUANTITY												
COST												
(In Millions)	\$8.9		\$10.3	\$8.0	\$8.3	\$10.4	\$10.6	\$10.8	\$11.0	\$11.3	Cont	Cont

This program provides funding for rocket motors, rocket catapults and catapults used to eject crewmen from disabled aircraft. The program is structured to meet replacement requirements that are based on aircraft inventories and escape rocket/catapult service lives. An aircraft containing a single escape rocket/catapult not up to man-rated standards is grounded for safety-of-flight. Spare inventories are limited to the lowest level that can be maintained without causing aircraft grounding due to shortfalls. Devices are also used in the operation of aircraft emergency safety systems. The FY 1999 budget request provides funding for the procurement of MK 122 parachute deployment rocket motors, MK 123/124 underseat rocket motors, MK 100 Rocket Motors, various miscellaneous devices, PIP and associated production engineering and integrated logistics support.

<u>PES</u>: Production Engineering Support efforts include the review of procurement requests, waivers and deviations, and technical support for First Article Testing/Lot Acceptance Testing. Conformance with new EPA regulations is part of the PES review.

<u>ILS</u>: Integrated Logistics Support provides ILS planning, maintenance standardization, supply support, development and implementation of a traceability system, and technical data programs.

<u>PIP</u>: Multi-year Product Improvement Programs consists of programs to ensure producibility and safety for the MK 109 Canopy Remover Rocket Motor, the MK 12/16/18 Rocket Catapults, and the MK 100/101/123/124 Underseat Rocket Motors.

*FY 95 Only. Prior to FY 95, this program was funded in the Other Procurement, Navy appropriation.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 7

PAGE NO. 1

DD Form 2454, JUN 86

	WEAPONS S	-	EM COST P-5	ANALYS	SIS				Weapon							DATE: FEB	RUARY	1998
PROCI	PRIATION/BUDGET ACTIVITY JREMENT OF AMMUNITION, NAVY - Navy Ammunition	& M	IARINE (ORPS					ID Code		NOMENCLA Escape R			(Y1Q9)				
	,		TOTAL CO	ST IN TH	OUSANDS C	F DOLLAR	S				,			· /				
COST CODE	ELEMENT OF COST	ID Code	Prior Years					FY 1996			FY 1997			FY 1998			FY 1999	
			Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Co
Q9080 Q9081 Q9090 Q9820 Q9130 Q9800 Q9830 Q9850	SAFETY MK122 Parachute Deploy. RKT Mtr(MT29) MK123 Underseat Rkt Mtr (MT30) MK124 Underseat Rkt Mtr (MT31) MK 100 Rkt Mtr (MD68) Reliability Life Misc Devices Under \$500K Integrated Logistics Support Production Engineering Support Product Improvement Program Acceptance Test	A A A A					45	9,620.74	0 0 433 560 5,508 570 868 1,832 574		-	70	223 9 9	3,076.27 7,922.96 7,922.96	71	123 67 132	8,089.00	388 544 1,066 655 3,200 93 922 1,956
	TOTAL		8,926						10,345			8,002			8,338			10,37

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

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BUDGET PROCURE	MENT HIST	ORY AND	PLANNING EXHIBIT	(P-5A)		Weapon System		A. DATE	EBRUARY 1	1998
B. APPROPRIATION/BUDG	ET ACTIVITY				C. P-1 ITEM NON	I MENCLATURE			SUBHEAD	1000
PROCUREMENT OF		ON. NAVY	& MARINE CORPS			craft Escape Rockets/	Catapults			Q9)
B.A.1 - Navy Ammu		•				•	•		,	,
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
Q9070 MK 122 Parach	ute Deployme	 nt Rkt Mtr (l	 MT29)							
FY 97	126	3,013	NAVICP (Mechanicsburg, PA)	Jan 97	C/FP	UPCO (PHOENIX, AZ)	APR 97	APR 98	YES	
FY 98	223	3,076	TBD	TBD	C/FP	UNKNOWN	APR 98	APR 99	YES	
FY 99	123	3,141	TBD	TBD	C/FP	UNKNOWN	APR 99	APR 00	YES	
Q9080 MK 123 Unders	I seat Rkt Mtr (M	I IT30)								
FY 97	9	7,760	NAVICP (Mechanicsburg, PA)	Jan 97	C/FP	MARTIN-BAKER (LONDON, UK)	APR 97	APR 98	YES	
FY 98	9	7,923	TBD	TBD	C/FP	UNKNOWN	APR 98	APR 99	YES	
FY 99	67	8,089	TBD	TBD	C/FP	UNKNOWN	APR 99	APR 00	YES	
Q9081 MK 124 Unders	I <u>eat Rkt Mtr (M</u>	I <u>T31)</u>								
FY 97	18	7,760	NAVICP (Mechanicsburg, PA)	Jan 97	C/FP	MARTIN-BAKER (LONDON, UK)	APR 97	APR 98	YES	
FY 98	9	7,923	TBD	TBD	C/FP	UNKNOWN	APR 98	APR 99	YES	
FY 99	132	8,089	TBD	TBD	C/FP	UNKNOWN	APR 99	APR 00	YES	

PAGE NO. 3

D. REMARKS

*CONTRACTOR OWNED DATA PACKAGED.

FY 1998/99 BUDGET PRODU			EDULI	E, P-2	1				UNK	(DATE		FEB	RUA	RY 1	998							
APPROPRIATION/BUDGET A PROCUREMENT OF AMMUN			& MA	RINE	COR	PS							We	apor	sys	tem		P-1	ITEN						ts/C	atap	ults	(Y1Q	. 9]	
							Pro	oduct	ion F	Rate					Pr	ocur	emer	nt Le	adtin	nes										
		Mar	nufacti	urer's								AL	T Pr	ior	Al	_T Af	ter		Initia	l	R	eord	ler					Un	it of	
Item	1	Name	and L	ocatio	n	М	SR	1-	8-5	M	AX	to	Oct	1		Oct '	1	M	lfg Pl	_T	M	lfg P	LT		Tota	ı		Mea	sure	ż
All			er - Er			1			65		65					6	-		12						18			Each		
7 til			noenix		-	1		UNI		UNŁ						6			12						18			Each		
	0, 0,		IOCITIX	, / (112.				0141	`	0141									12						10			Laci		
			I		I				FICC	NAL VE	EAR 1	200										FIC	CALV	EAR	1000					_
ITEM / MANUFACTURER	F	s	Q	D	В	1997			FISC		ALEND		AR 19	998								FIS			1999 DAR YE	EAR 19	199			-
	Y	V	Т	E	Α	0	N	D	J	F	М	Α	М	J	L.J		s	0	N	D	J	F	М	Α	М	I ,	Ĺ	А	S	В
		С	Υ	L	L	C T	0 V	E	A N	E B	A R	P R	A Y	U N	U	U G	E P	C	0 V	E	A N	E B	A R	P R	A Y	U	U	U	E P	A L
Q9070 MK 122(MT29)		N																												T
Unknown	97		126	0	126							10	10	10	10	10	10	11	11	11	11	11	11							0
Unknown	98		223	0	223							Α												19	19	19	19	19	19	10
Unknown	99		123	0	123																			Α						12
Q9080 MK 123 (MT30)		N																												
Unknown	97		9	0	9							1	1	1	1	1	1	1	1	1										0
Unknown	98		9	0	9							Α												1	1	1	1	1	1	3
Unknown	99		67	0	67																			Α						67
Q9081 MK 124 (MT31)		N																												
Unknown	97		18	0	18							1	2	1	2	1	2	1	2	1	2	1	2							0
Unknown	98		9	0	9							Α												1	1	1	1	1	1	3
Unknown	99		132	0	132																			Α						13
									FISC	AL YE	EAR 2	000									_	FIS	CAL Y	'EAR :	2001					
ITEM / MANUFACTURER	F	S	Q	D	В	1999							CALE	NDAR	YEAF	2000							С	ALEN	DAR YE	AR 20	01			
	Υ	V	Т	Е	Α	0	N	D	J	F	M	Α	М	J	J	Α	s	0	N	D	J	F	М	Α	М	J	J	Α	S	B A
		С	Y	L	L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	L
Q9070 MK 122(MT29)		N																												T
Unknown	98		223	114	109	19	19	19	19	19	14																			0
Unknown	99		123	0	123							10	10	10	10	10	10	10	10	10	10	10	13							0
Q9080 MK 123 (MT30)		N																												
Unknown	98		9	6	3	1	1	1																						0
Unknown	99		67	0	67							6	6	6	6	6	6	6	6	6	6	6	1							C
Q9081 MK 124 (MT31)		N																												
Unknown	98		9	6	3	1	1	1				L.,	.		L.,	l	l	L.,	L.,	L	l	ļ.,	L.,							0
Unknown	99		132	0	132							11	11	11	11	11	11	11	11	11	11	11	11	<u></u>						0

Remarks: * These items delivered in batches. The 10 units in MK123 and 20 units in the MK124 are options.

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

UNCLASSIFIED

			BUDGET	TITEM JUST	TIFICATION	SHEET				DATE:			
				P-4	10						Februa	ry 1998	
APPROPRIATION/E	BUDGET ACTIVI	ΓY						P-1 ITEM NO	MENCLATURE				
PROCUREMEN	T OF AMMUN	ITION, N	NAVY & MA	RINE CORP	S			AIR	BORNE EX	PENDABLE	C/M PROG	RAM (SH Y1	QA)
Program Element fo	or Code B Items:							Other Related	Program Elem	nents			
BA1 - NAVY AN	MUNITION												
	Prior	ID										То	
	Years	Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		Complete	Total
QUANTITY													
COST	*												
(In Millions)	\$12.0		\$22.3	\$20.4	\$22.2	\$29.1	\$45.8	\$49.3	\$45.5	\$58.4		CONT	CONT

The Airborne Expendable Countermeasures (ABN EXPC/M) line provides funding for procurement of countermeasure self-protection devices for all Navy and Marine Corps tactical, rotary and slow fixed-wing aircraft. The ABN EXP C/M Program is divided into the following threat related categories: (a) air-launched chaff, (b) Radio Frequency (RF) Active jammers, (c) infrared (IR) decoys, (d) associated impulse cartridges, and (e) support costs.

Active Jammers: The Advanced Airborne Electronic Decoy (AAED), part of the ALE-50 program, achieved a Milestone III Production Decision in FY 1997. Procurement of the AAED Towed Expendable Decoy began in FY 1997. The Fiber Optic Towed Decoy (FOTD) is part of the Integrated Defensive Electronic Countermeasure (IDECM) Radio Frequency Countermeasure (RFCM) program which is scheduled for Milestone III Production Decision in FY 2001. Limited Rate Initial Production (LRIP) of the FOTD will begin in FY 1999 based on an Operational Assessment (OA) beginning in FY 1998. AAED and FOTD were developed under PE 0604270N RDT&E, Project E2175.

IR Decoys: The MJU-27A/B incorporates a safety enhancement and will replace the MJU-27/B beginning in FY 1996. Also, beginning in FY 1996 the MJU38 will replace the MJU8A/B and will be the infrared countermeasure used by high performance (tactical) aircraft, and the MJU32 will replace the MK 46 and will be the infrared countermeasure used by rotary and slow fixed-wing aircraft. The MJU32 and MJU38 incorporate several safety enhancements that will significantly lessen the hazards associated with handling and producing magnesium fueled devices. The MJU49/B is an IR countermeasure in support of H46/H53 requirements. Procurement will begin in FY 1998 for the MJU35 and MJU36 extended length decoys in support of F/A-18E/F testing. The SM875 is a dedicated, low cost training device. The MK28 is a decoy flare used for missile training and testing. Reprocurement to replenish inventory levels will begin in FY 1998. Procurement of the Advanced Strategic and Tactical Infrared (ASTE) Kinematic decoy, the MJU-47, the ASTE companion device, the MJU-48, and the ASTE covert device, the MJU-51, will begin in FY 2000. Procurement of the "BOL IR" device will also begin in FY 2000. All infrared decoys will be competitively procured by the Single Manager for Conventional Ammunition (SMCA).

Impulse Cartridges: Used to propel the self-protection devices away from the aircraft. Beginning in FY 1997 the CCU136 will replace the CCU/63 and the CCU41/B. The BBU-36 is used with the MJU-47 and the BBU-35 is used with the MJU-48 and MJU-51.

Support costs: Provide for required Production Engineering (PE), Product Improvement (PIP), Quality Assurance (QA), Acceptance Test and Evaluation (AT&E), and Integrated Logistic Support (ILS) by NAVAIR engineering/cognizant field activities.

* FY 95 only. Prior to FY 95, this program was funded in the Weapons Procurement, Navy (WPN) and Other Procurement, Navy (OPN) appropriations.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 8 PAGE NO. 1

UNCLASSIFIED

DD Form 2454, JUN 86

UNCLASSIFIED

	WE	APONS SY	STEM COST	ANALYS	IS				Weapon Sy	stem							DATE: Februa	ary 1998
	PRIATION/BUDGET ACTIVITY REMENT OF AMMUNITION, NAVY &	MARINE C	ORPS						ID Code	P-1 ITEM NC		RE/SUBHEAI		ABLE C/M	PROGRA	M (SH Y1Q	Α)	
			TOTAL COST	Γ IN THOUS	ANDS OF D	OLLARS		<u>:</u>										
COST	ELEMENT OF COST	ID Code	Prior Years Total Cost	Quantity	FY 1996 Unit Cost	Total Cost	Quantity	FY 1997 Unit Cost	Total Cost	Quantity	FY 1998 Unit Cost	Total Cost	Quantity	Unit Cost	FY Total Cost	1999 Quantity	Unit Cost	Total Co
			*	Quantity	OTHE COSE	Total Cost	Quantity	OTHE GOSE	Total Cost	Quantity	Crist Coot	Total Cost	Quantity	Crist Goot	Total Cost	Quantity	Onit Cool	10101 001
QA110	ACTIVE JAMMERS AAED (ALE-50)	В					92	25,872	2,380	156	22,747	3,549	117	21,961	2,569			
TBD	FOTD / IDECM	В											180	26,702	4,806			
TBD	FOTD (TRAINING)	В																
QA130	IR DECOYS MJU-27A/B DECOY DEVICE	А		24,497	100	2,449	66,300	91	6,022	60,480	94	5,703	28,800	84	2,417			
QA140	MJU-32/B ROTARY-WING DECOY	А		138,696	27	3,723	123,480	24	3,011	114,660	18	2,047	110,832	20	2,235			
QA150	MJU-38/B FIXED WING DECOY	А		131,094	33	4,285												
TBD	MJU-49/B DECOY DEVICE	А											35,262	137	4,820			
QA260	SM875 (TRAINING FLARE)	А		127,960	7	897	112,320	6	699									
QA260	SM875A (TRAINING FLARE)	А								155,520	7	1,158	164,160	7	1,075			
QA160	MK28 MOD 3 (TARGET FLARE)	А								30	212	6	30	217	7			
QA180	MJU-35/B DECOY DEVICE	А								1,000	129	129	3,000	123	368			
QA170	MJU-36B FIXED-WING DECOY	А								1,000	70	70	4,000	43	173			
TBD	MJU-47/B (ASTE)	В																
	PAGE TOTAL M 2446, JUN 86		OPPING LIST			11,354			12,112			12,662			18,470 CLASSIFICA			

PAGE TOTAL DD FORM 2446, JUN 86 P-1 SHOPPING LIST ITEM NO. PAGE NO.

	WEA	APONS SY	STEM COST	T ANALYS	IS				Weapon Sy	stem							DATE: Febru	ary 1998
	PRIATION/BUDGET ACTIVITY PREMENT OF AMMUNITION, NAVY & I	MARINE C							ID Code	P-1 ITEM NO				ABLE C/N	I PROGRAI	W (SH Y1Q		
			TOTAL COST	T IN THOUS	ANDS OF D	OLLARS												
COST	ELEMENT OF COST	ID Code	Prior Years		FY 1996			FY 1997			FY 1998				FY	1999		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
QA070	IMPULSE CARTRIDGES CCU-63/B (IR DECOYS)	А		260,352	2	414												
QA080	CCU-41/B (CHAFF)	А	860	138,238	1	196												
QA090	CCU-136 (GENERIC)	А					390,265	2	882	430,735	2	995	488,880	2	1,154			
TBD	BBU-36B (KINEMATIC)	А																
TBD	CHAFF COUNTERMEASURES RR-129A CHAFF CM	А																
TBD	RR-144A TRNG CHAFF	А																
QA240	RR-184 BOL CHAFF	А	1,954															
QA830	SUPPORT COSTS PRODUCTION ENGINEERING		1,960			2,467			1,967			2,509			2,910			
QA840	HQ IOC SUPPORT		491			2,301			1,029			505			189			
QA850	PRODUCT IMPROVEMENT		2,862			2,226			1,673			1,989			2,350			
QA860	ACCEPTANCE TEST & EVALUATION		3,672			2,987			2,424			3,229			3,661			
QA800	ILS		190			350			300			310			325			
	P5 GRAND TOTAL	•	11,989			22,295			20,387			22,199			29,059			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST

ITEM NO. 8 PAGE NO. 3

CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) Weapon System A. DATE February 1998 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS AIRBORNE EXPENDABLE C/M PROGRAM Y1QA CONTRACT DATE OF SPECS DATE QUANTITY RFP ISSUE **REVISIONS** Cost Element/ UNIT LOCATION **METHOD** CONTRACTOR AWARD FIRST **AVAILABLE** FISCAL YEAR COST OF PCO DATE & TYPE AND LOCATION DATE **DELIVERY** NOW **AVAILABLE** (000)**ACTIVE JAMMERS** AAED (ALE-50) (TBD) FY 97 92 25.872 Wright Pat AFB, OH Dec-96 SS/FP Raytheon, Goleta, CA Jan-97 Mar-98 YES SS/FP Raytheon, Goleta, CA YES (TBD) FY 98 156 22,747 Wright Pat AFB, OH Option Jan-98 Mar-99 (TBD) FY 99 117 21.961 Wright Pat AFB, OH Option SS/FP Raytheon, Goleta, CA Jan-99 Mar-00 YES FOTD (IDECM) SS/FP (TBD) FY 99 180 26.702 NAVAIR Wash DC Jan-99 Sanders. Nashua. NH Jun-99 Sep-00 NO Nov-98 INFRARED DECOYS MJU-27A/B DECOY (EWAA) SMCA Rock Island, IL SS/FP Alloy, Wilmington, DE YES FY 96 24,497 0.100 Dec-96 Dec-96 Jun-97 (EWAA) FY 97 66,300 0.091 SMCA Rock Island, IL May-97 SS/FP Alloy, Wilmington, DE YES Apr-97 Sep-97 SMCA Rock Island, IL Dec-97 SS/FP Alloy, Wilmington, DE YES (EWAA) FY 98 60,480 0.094 Apr-98 Sep-98 SMCA Rock Island, IL Dec-98 SS/FP Alloy, Wilmington, DE YES (EWAA) FY 99 28,800 0.084 Apr-99 Sep-99 MJU-32/B ROTARY WING AIRCRAFT DECOY (LA01) FY 96 138,696 0.027 SMCA Rock Island, IL Dec-96 C/FP Kilgore, Toon, TN Mar-97 Jul-97 YES C/FP YES (LA01) FY 97 123,480 0.024 SMCA Rock Island, IL Feb-97 Kilgore, Toon, TN Mar-97 Feb-98 (LA01) FY 98 114,660 0.018 SMCA Rock Island, IL Dec-97 C/FP **TBD** YES Mar-98 Sep-98 C/FP **TBD** (LA01) FY 99 110,832 0.020 SMCA Rock Island, IL Dec-98 Mar-99 Jul-99 YES

D. REMARKS

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST ITEM NO. 8 PAGE NO. 4 Classification:

DD Form 2446-1, JUL 87

BUDGET P	ROCUREM	ENT HISTO	RY AND	PLANNING EXHIBI	T (P-5A)		Weapon System		A. DATE		
					, ,		, ,			February 19	98
B. APPROPRIA						C. P-1 ITEM NON				SUBHEAD	
PROCURE	MENT OF A	MMUNITIO	N, NAVY	& MARINE CORPS	•	AIRBORNE	EXPENDABLE C/M PROC	GRAM		Y1	QA
Cost El FISCAL		QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
INFRARED DE		•									
MJU-38/B FIXE (LA02)	ED WING DEC FY 96	COY 131,094	0.033	SMCA Rock Island, IL	Dec-96	C/FP	Kilgore, Toon, TN	Mar-97	Jul-97	YES	
MJU-49/B DEC (DWCI)	COY DEVICE FY 99	35,262	0.137	NSWC Crane, IN	Nov-98	SS/FP	Alloy, Wilmington, DE	Feb-99	Jun-99	YES	
SM875 TRNG (L540)	FLARE FY 96	127,960	0.007	SMCA Rock Island, IL	Dec-96	C/FP	Martin, Perry, FL	Feb-97	May-97	YES	
(L540)	FY 97	112,320	0.006	SMCA Rock Island, IL	May-97	C/FP	Martin, Perry, FL	Jun-97	Feb-98	YES	
SM875A TRNO (LA10)	G FLARE FY 98	155,520	0.007	SMCA Rock Island, IL	Dec-97	C/FP	TBD	Apr-98	Oct-98	YES	
(LA10)	FY 99	164,160	0.007	SMCA Rock Island, IL	Dec-98	C/FP	TBD	Apr-99	Oct-99	YES	
MK-28 MOD 3	TARGET FLA	I RE									
(LW39)	FY 98	30	0.212	N/A	N/A	N/A	NSWC Crane, IN	Jan-98	Jun-98	YES	
(LW39)	FY 99	30	0.217	N/A	N/A	N/A	NSWC Crane, IN	Jan-99	Jun-99	YES	
MJU-35/B DEC	COY DEVICE										
(DWCG)	FY 98	1,000	0.129	NSWC Crane, IN	Oct-97	SS/FP	Alloy, Wilmington, DE	May-98	Oct-98	YES	
(DWCG)	FY 99	3,000	0.123	NSWC Crane, IN	Oct-98	SS/FP	Alloy, Wilmington, DE	May-99	Oct-99	YES	
D. REMARK	S			<u> </u>			1				

P-1 SHOPPING LIST ITEM NO. 8 PAGE NO. 5 Classification:

UNCLASSIFIED

P-1 SHOPPING LIST

ITEM NO.

CLASSIFICATION:

DD Form 2446-1, JUL 87

BUDGET PI	ROCUREM	ENT HISTO	RY AND	PLANNING EXHIBI	T (P-5A)		Weapon System		A. DATE		
D 4000000000000000000000000000000000000	TIGN/DUDG==	A OT!! (IT)				lo patremos	45NOLATURE		<u> </u>	February 19	98
B. APPROPRIA PROCUREN			N, NAVY	& MARINE CORPS	;	C. P-1 ITEM NON	MENCLATURE EXPENDABLE C/M PROG	RAM		SUBHEAD Y1	QA
Cost Ele FISCAL		QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
INFRARED DE MJU-36B FIXE (DWCH) (DWCH)		OY 1,000 4,000	0.070 0.043	N/A N/A	N/A N/A	N/A N/A	NSWC Crane, IN NSWC Crane, IN	May-98 May-99	Oct-98 Oct-99	YES YES	
IMPULSE CAR CCU-136 (GEI (SS36) (SS36)		390,265 430,735	0.002 0.002	NICP Mechanicsburg NICP Mechanicsburg	Feb-97 Dec-98	C/FP	Tech Ord, St. Bonafacius,MN	Aug-97 May-98	Oct-97 Oct-98	YES YES	
(SS36)	FY 99	488,880	0.002	NICP Mechanicsburg	Dec-99	C/FP	TBD	May-99	Oct-99	YES	
D. REMARKS	S										

8

PAGE NO.

Classification:

6

FY 1998/99 BUDGET PRODU	JCTION	SCHE	DULE,	P-21														DATE				Feb	ruary	1998						
APPROPRIATION/BUDGET APPROCUREMENT OF AMMUN	_		& MAR	RINE (CORPS								W	eapoi	n Syst	tem		P-1 I	TEM I Al					BLE C	M PF	ROGR	AM (S	SH Y1	QA)	
	•						Ρı	roduct	ion Ra	ate						Procu	reme	nt Lea	adtime	95										
		Mar	nufactu	ırer's								Α	LT Pri	ior	Α	LT Aft	ter		Initia	I	F	Reord	er					Ur	nit of	
Item		Name	and L	ocatio	n	M:	SR	1-8	8-5	M	AX	t	o Oct	1		Oct 1		N	/lfg PL	Т	Λ	∕lfq PL	_T		Tota	I		Me	asure	į
AAED	Ravt	heon, G	Soleta.	CA		TE	BD	TE	3D	TE	3D					4			14						18		1		EA	
FOTD		lers. Na				TE	BD	TE	3D	TE	3D					9			15						24				EA	
MJU-27A/B		, Wilmii	,			1.0	020	8.6	340	17.	280					7			5						12		1		K	
MJU-32/B		re, Too	,			,	320	- , .	640		640					6			4						10		 		K	
MJU-38/B		re, Too				- , .	320		640		640					6			4						10		<u> </u>		K	
MJU-49/B		, Wilmii		DF		- /	020	8.6			280					5			4						9		+		K	
1000 45/15	7 tiloy	, vv	igtori,	T		1,0	<i>3</i> 20	0,0	7-10			(EAD 40	0.7										10041.	(EAD 40						$\overline{}$
ITEM / MANUFACTURER	F	s	Q	D	В		1996			FI	SCAL Y	EAR 19		FNDAR	YEAR	1997					1	-	ISCAL Y	CALEN		AR 199				1
TIEM, WATER TOTAL	Y	V	T	E	A	0	N	D		F	М	Α	М	LINDI	T .	A	s	0	N	D		F	М	A	М	Т.	Ĭ	Α	s	В
		С	Υ	L	L	C	0	E	A	E	A	P	A	U	U	U	E	C	0	E	A	E	A	P	A	J	Ü	Ü	E	A
						Т	V	С	N	В	R	R	Y	N	L	G	Р	Т	V	С	Ν	В	R	R	Y	N	L	G	P	-
AAED/RAYTHEON	97		92.0		92.0				Α														8.0	8.0	8.0	8.0	8.0	8.0	8.0	36.0
AAED/RAYTHEON	98		156.0		156.0																Α									156.0
MJU-27A/B/ALLOY	96		24.5		24.5			Α						8.1	8.2	8.2														0.0
MJU-27A/B/ALLOY	97		66.3		66.3		ļ					Α					5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.8		0.0
MJU-27A/B/ALLOY	98		60.5		60.5														ļ			ļ		Α			_		5.5	55.0
MJU-32/B/KILGORE	96 97		138.7		138.7 123.5		-				A				17.6	17.6	17.6	17.6	17.6	17.6	17.6		47.0	47.0	47.0	47.0	47.0	47.0	450	0.0
MJU-32/B/KILGORE MJU-32/B/TBD	98		123.5 114.7		123.5						Α								-			2.1	17.6 A	17.6	17.6	17.6	17.6	17.6	15.8	0.0 112.9
MJU-38B/KILGORE	96		131.1		131.1						A				8.8	17.6	17.6	17.6	17.6	17.6	17.6	16.7	 ^ -			-		+	1.0	0.0
WIGO SOB/RICCORE	30		101.1		131.1										0.0	17.0	17.0	17.0	17.0	17.0	17.0	10.7	-			-		-	-	0.0
										FI	SCAL Y	EAR 19	99									F	ISCAL Y	EAR 20	000					
ITEM / MANUFACTURER	F	S	Q	D	В	19	998					_	CAL	ENDAR	YEAR	1999								CALEN	DAR YE	AR 200	0			
	Υ	V	T Y	E L	A	0	N	D	J	F	М	Α	М	J	J	Α	s	0	N	D	J	F	М	Α	М	J	J	Α	s	B A
		C	Y	L	L	С	0	E	Α	Е	Α	Р	Α	U	U	U	E	С	0	E	Α	Е	Α	Р	Α	U	U	U	E	L
						T	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Υ	N	L.	G	Р	↓
AAED (ALE-50)/RAYTHEON	97		92.0	56.0	36.0	8.0	8.0	8.0	8.0	4.0													ļ				_			0.0
AAED (ALE-50)/RAYTHEON AAED (ALE-50)/RAYTHEON	98 99		156.0 117.0		156.0 117.0						13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	100	40.0	40.0	40.0	40.0	10.0	400	0.0 47.0
FOTD (IDECM)/SANDERS	99		117.0		117.0			-	Α					Α		-							10.0	10.0	10.0	10.0	10.0	10.0	10.0	170.0
MJU-27A/B DECOY/ALLOY	98		60.5	5.5	55.0	5.5	5.5	5.5	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	-		-	-		-	-		-	-		-	10.0	0.0
MJU-27A/B DECOY/ALLOY	99	1	28.8	1	28.8	0.0	0.0	0.0	7.5	7.0	7.0	4.0 A	7.0	7.0	7.0	7.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	+	0.0
MJU-32/B/TBD	98		114.7	1.8	112.9	8.8	8.8	8.8	8.8	16.1	17.6	17.6	17.6	8.8											T		l			0.0
MJU-32/B/TBD	99		110.8	Ī	110.8						Α				8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	14.0				0.0
MJU-49/B/ALLOY	99		35.3		35.3			T		Α				2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.4					0.0

DD Form 2445, JUL 87 P-1 SHOPPING LIST Previous editions are obsolete 311 / 244 ITEM NO 8 PAGE 7

Exhibit P-21 Production Schedule

FY 1998/99 BUDGET PRODU	JCTION	SCHE	DULE,	P-21														DATE				Feb	ruary	1998						
APPROPRIATION/BUDGET A PROCUREMENT OF AMMUN	-		& MAR	INE C	CORPS								W	eapo	n Syst	em		P-1 I	I MAT IA					BLE C	/M PF	ROGR	RAM (S	3H Y1	QA)	
	<u> </u>						Ρı	oduct	tion R	ate						Procu	reme	nt Lea	adtime){										
		Mar	nufactu	rer's								Α	LT Pr	ior	Α	LT Af	ter		Initial		F	Reord	er					Ur	nit of	
Item		Name	and Lo	ocatio	n	M:	SR	1-	8-5	М	AX	l t	o Oct	1		Oct 1		N	/lfg PL	T	I 1	/lfg PL	Т		Tota	ıl		Me	asure	
SM875	Marti	n, Perr	v. FL			8.6	640	8.6	640	_	.280					7			6						13	3			K	
MK-28		C Crar	•			- , .	2	- ,	10		00					4			5								1		EΑ	
MJU-35/B		, Wilmii	,	DE			00		000		000					8			5						13		+-		K	
MJU-36B		C Crar					00	,	000	,	000					8			5						13		+		K	
CCU-136		Ord. S	,	·fooi	- NANI		000		.000	,	.000					8			5						13		+		K	
CCU-136	recn	Ora, S	i. Dona	araciu	S,IVIIN	10,	000	40,	,000	80	,000					0			5						13	•	+-		<u>n</u>	
										F	ISCAL Y	EAR 19	997									F	ISCAL Y	EAR 19	998					
ITEM / MANUFACTURER	F	s	Q	D	В		1996						CAL	ENDAF	YEAR	1997							•	CALEN	DAR YI	EAR 199	18			
	Υ	V	Т	Е	Α	0	N	D	J	F	М	Α	М	J	J	Α	s	0	N	D	J	F	М	Α	М	J	J	Α	s	В
		С	Υ	L	L	Ċ	0	E	A	E	Α	Р	Α	Ü	Ü	U	E	C	0	E	A	E	Α	Р	Α	U	Ü	U	E	A
						Т	V	С	N	В	R	R	Y	N	L	G	Р	Т	V	С	N	В	R	R	Y	N	L	G	P	
SM875/MARTIN	96		128.0		128.0					Α			8.6	8.6	8.6	17.3	17.3	17.3	17.3	17.3	15.7						1			0.0
SM875/MARTIN	97		112.3		112.3									Α								9.8	17.6	17.6	17.6	17.6	17.6	14.5		0.0
SM875A/TBD	98		155.5		155.5																			Α						155.5
MK-28/NSWC CRANE *	98		30.0		30.0					ļ	ļ					ļ					Α		ļ		ļ	2.0	2.0	2.0	2.0	22.0
MJU-35/B/ALLOY	98		1.0		1.0																				A					1.0
MJU-36B/NSWC CRANE	98		1.0		1.0					ļ	-		-			ļ		l				ļ	ļ		A	-	ļ	-	-	1.0
CCU-136/TECH ORD	97		390.3		390.3						-					Α		20.0	40.0	40.0	70.0	70.0	70.3	80.0	-		4		ļ	0.0
CCU-136/TBD	98		430.7		430.7					-				-			-		-	-			-		A	-			-	430.7
										F	ISCAL Y	/EAR 1	999									F	ISCAL \	/EAR 20	000					
ITEM / MANUFACTURER	F	S	Q	D	В		1998					_	CAL	ENDAF	YEAR	1999		_						CALEN	DAR YI	EAR 200	0			
	Υ	V	T	E	A	0	N	D	J	F	М	Α	М	J	J	Α	s	0	N	D	J	F	М	Α	М	J	J	Α	S	В
		С	Y	L	L	C	0 V	E C	A N	E B	A R	P R	A	U N	U	U	E	C T	0 V	E C	A N	E B	A R	P R	A	U N	U	U G	E	L
SM875A/TBD	98		155.5		155.5	8.6	8.6	8.6	8.6	8.6	17.3	17.3	17.3		17.3		8.7	H	· ·	Ü	- '`	-	"	- 1	+ -	14	⊢∸	-	H	0.0
SM875A/TBD	99		164.2		164.2				1	1	1	A	1	15	1			8.6	8.6	8.6	8.6	17.3	17.3	17.3	17.3	17.3	17.3	17.3	8.7	0.0
MK-28/NSWC CRANE *	98		30.0	8.0	22.0	2.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0	<u> </u>											1	1		1		0.0
MK-28/NSWC CRANE *	99		30.0		30.0				Α			1		2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0					0.0
MJU-35/B/ALLOY	98		1.0		1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1															0.0
MJU-35/B/ALLOY	99		3.0		3.0								Α					0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3			0.0
MJU-36B/NSWC CRANE	98		1.0		1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1															0.0
MJU-36B/CRANE	99		4.0		4.0								Α					0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4			0.0
CCU-136/TBD	98		430.7		430.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.8		L				L		l			1	L	0.0
CCU-136/TBD	99		488.9		488.9								Α					40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	41.2	0.0

Remarks:

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

^{*} MK-28/NSWC CRANE FY 1998 and FY 1999 quantities are each.

FY 1998/99 BUDGET PRODUC			<u>EDULE</u>	., P-21	<u> 1 </u>													DATE						1998						
APPROPRIATION/BUDGET AC PROCUREMENT OF AMMUNIT			& MA	RINE	CORP	s							W	eapor	•			P-1 I	AIF	RBOR	NCL/ NE E	ATUR XPEN	E IDABI	LE C/I	M PR	OGR/	AM (SI	H Y10	QA)	
							Pi	roduct	tion R	ate						Procu	reme	nt Lea	dtime	•										
ltem			nufactu e and L		on	M	SR	1-8	8-5	М	AX		LT Pr o Oct			LT Aft Oct 1			Initial Ifg PL			Reorde Ifg PL			Total			Uni Mea		
ITEM / MANUFACTURER	F	S	Q	D	В		2000			F	ISCAL Y	EAR 20		ENDAR	YFAR	2001						FI		EAR 20		AR 2002				
TEM, MINO ACCULA	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	B A L
AAED (ALE-50)/RAYTHEON	99		117.0	70.0	47.0	10.0		10.0	10.0	7.0																				0.0
FOTD (IDECM)/SANDERS	99		180.0	10.0	170.0	10.0	10.0	10.0	10.0	10.0	20.0	20.0	20.0	20.0	20.0	20.0														0.0
								•	•	F	SCAL Y	EAR 20	003	•		•						FI	SCAL Y	EAR 20	004					
ITEM / MANUFACTURER	F Y	S	Q	D	В		2002			1			CAL	ENDAR	YEAR	2003								CALENI	DAR YE	AR 2004	4			_
	Y	C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	T N	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	ZCL	n N	A U G	S E P	B A L
																												$\vdash \vdash \vdash$		
		-							-																			$\vdash \vdash$		
																												\vdash		

Remarks:																														

311 / 244 ITEM NO 8 PAGE 9 Exhibit P-21 Production Schedule

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			BUDGET	ITEM JUST	TFICATION	SHEET				DATE:			
				P-4	10						February 1	998	
APPROPRIATION/BU	DGET ACTIV	ITY						P-1 ITEM NO	MENCLATURE	Ī			
PROCUREMENT	OF AMMUN	IITION,	NAVY & MA	ARINE COR	PS				MARINE	LOCATIO	N MARKERS	S (Y1Q6)	
Program Element for C	ode B Items:							Other Related	Program Elem	nents			
	Prior	ID									То		
	Years	Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	Complete	Total	
QUANTITY													
COST													
(In Millions)	1.1*	Α	\$1.1	\$0.4	\$0.6	\$1.4	\$2.3	\$1.3	\$1.4	\$1.4	Continuing	Continuing	

Marine Location Markers

These items include both air-launched and hand-launched pyrotechnic devices. The aircraft launched units assist in visually locating sonobouys during anti-submarine operations. The hand launched units are used in a variety of situations which require a "marked spot" on the water surface, including man-overboard drills. The MK 58 was designed for day or night use in any condition calling for long burning, smoke and flame reference-point marking on the ocean. It produces yellow flame and white smoke for 40-60 minutes which is visible for at least three miles under normal operating conditions. The MK 25 is designed to launch from aircraft (primary) or surface craft to provide day/night reference-points in marking the course of enemy contacts. It is suitable for any type sea surface reference point marking that calls for both smoke and flame for approximately fifteen minutes.

The current budget profile provides funding for support efforts (PES, ILS), procurement of non-standard items, renovation components, and product improvement programs (PIPs) for future procurements. Funds for PIP in FY 99 are required to complete testing and documentation of the MK 58 Mod 2. This modification makes the MK 58 unit in a standard sonobouy size and incorporates a scuttling device that will work for consumed or dud units. Additionally, it incorporates an arming switch as an additional safety feature in each marker configuration. Some minor hardware/material changes will be made at the same time for cost and ease of manufacture considerations.

The significant increase in funding from FY 1998 to FY 1999 and out is associated with procurement of the new MK 58 units.

* Reflects only FY 95 funding. Prior to FY 95, these programs were in the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) appropriations.

FY96 FY97 FY98 FY99** FY00** FY01** FY02** FY03** \$0.0 \$0.0 \$0.0 \$0.0 NAVY RESERVE \$0.0 \$0.0 \$0.0 \$0.0

** Funding is below \$26K.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 9

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DD Form 2454, JUN 86

ITEM NO.

	WEAPO	NS SYS	TEM COST	ANALYSI	S				Weapon Sy	ystem						DATE: February 1998
APPRO	PRIATION/BUDGET ACTIVITY								ID Code	P-1 ITEM N	IOMENCLAT	URE/SUBHE	AD			•
PROC	UREMENT OF AMMUNITION, NA	VY & I	MARINE C	ORPS						MARINE	LOCATI	ON MARK	(ERS (Y	1Q6)		
			TOTAL COS	OHT NI T	JSANDS O	F DOLLARS										
COST	ELEMENT OF COST	ID Code	Prior Years**		FY 1996			FY 1997			FY 1998			FY 1999		
CODE		Code	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Q6010	MK 58 MLM (L580)	А	-	-	-	-	-	-	-	-	-	-	2,173	180.41	392	
Q6800	Integrated Logistics Support		25	;		25			23	3		22			25	
Q6830	Prod. Engr. Services-Navy		247	·		524			146	6		263			345	
Q6831	Production Support-Army*								-			-			22	
Q6850	Product Improvement Program		465	;		490			203	3		333			542	
Q6892	Non-Standard Items		337	·		12			65			10			12	
Q6893	Renovation Components		14			12			10)		10			12	
	* Production Support Army is for Qualit ** Reflects only FY 95. Prior to FY 95,								and Other I	Procuremer	nt Navy (OP	N) appropria	ations.			
			4.000			4.000			44-			600			4 050	
DD FOR	M 2446, JUN 86	P-1 SH	1,088		I	1,063	'I	I	447	1	I	638			1,350 CLASSIFICA	

PAGE NO.

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) Weapon System A. DATE February 1998 B. APPROPRIATION/BUDGET ACTIVITY SUBHEAD C. P-1 ITEM NOMENCLATURE **Y1Q6** PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS MARINE LOCATION MARKERS CONTRACT DATE OF SPECS IF YES Cost Element/ QUANTITY UNIT LOCATION RFP ISSUE METHOD CONTRACTOR **AWARD FIRST** AVAILABLE WHEN FISCAL YEAR COST OF PCO DATE & TYPE AND LOCATION DATE DELIVERY NOW AVAILABLE (000)Q6010 MK 58 MLM (L580) **ARMY IOC** May-92 FY 92 20970 182.55 N/A C/FP CAAP Nov-93 YES (Rock Island, IL) FY 93 **ARMY IOC** May-93 17602 115.68 N/A C/FP CAAP Aug-94 YES (Rock Island, IL) FY 99 **ARMY IOC** N/A C/FP YES 2173 180.41 UNKNOWN Jan-99 Oct-00 (Rock Island, IL) D. REMARKS Pricing is provided by the Army and includes other services' buys.

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DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 9

FY 1998/99 BUDGET PRODU			DULI	E, P-2	1													DATE						/ 19	97					
APPROPRIATION/BUDGET AC													Wea	apor	ı Sy	stem)	P-1	ITE	M NC	MEN	VCL/	٩TU	RE						
PROCUREMENT OF AMMUNI	TION, I	YVAN	& MA	RINE	COR	PS															Ma	rine	<u>L</u>	ocat	tion	Ma	ark	ers		
							Pro	duct	ion	Rate	;				Pı	rocur	eme	ent L	.eadt	imes										
		Mar	nufacti	ırer's								AL	T P	rior	AL	_T Af	ter		Initia	al	R	eord	ler					Un	it of	
Item		Name	and L	ocatio	n	M	SR	1-8	8-5	M	٩X	to	Oct	t 1		Oct 1	1	N	lfg P	LT	M	fg Pl	LT		Tota	al		Mea	asure	Э
MK 58 (L580)	Cran	e AAF	, Crar	ne, IN		12.	.67	13.	.82	4	0					3			21						24			TH		
		Ī	Ī							FISC	CAL Y	EAR	1998									FISC	AL YE	AR 1	999					
ITEM / MANUFACTURER	F	S	Q	D	В		1998							ENDA	R YE	AR 199	98							LEND		AR 1	999			
	Υ	V	Т	E	Α	0	N	D	J	F	М	Α	М	J	J	Α	s	0	N	D	J	F	М	Α	М	J	J	Α	s	В
		С	Υ	L	L	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	A L
Q6010-MK 58 MLM (L580)	+					-	\ \ \		IN		1	1	'	IN	Ė		'		v	-	IN		11	11	<u>'</u>	IN	Ė	+		
CRANE AAP	92	N	20.9	14.5	6.4										6.4															0.0
CRANE AAP	93	N	17.6	0.0	17.6										3.0	9.5	5.1													0.0
UNK	99	N	2.2	0.0	2.2																Α								ļ	2.2
																												+	-	
ITEM (MANUEL OTUBER	_	_	_	D	Б.		1000			FISC	CAL Y	EAR :			- VE	A.D. 00						FISC		AR 2			004			
ITEM / MANUFACTURER	F Y	S V	Q T	E	B A		1999	I _	_	I _						AR 20		I _			_	1_	T	LEND.	1			Т.		В
		C	Ϋ́	L	Ĺ	O C	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	O C	N O	D E	J A	F	M A	A P	M A	J	J	A U	S E	Α
						T	V	C	N	В	R		Y	N	L	G	P	Т	V	C	N	В	R	R	Y	N	L	G	P	L
Q6010-MK 58 MLM (L580)																														
UNK	99	N	2.2	0.0	2.2													2.2										1		0.0
																							-					+		
																												-		
																												1		
																												-	-	
																							-					+		
Dana and sa							I				<u> </u>					1						1	_			1				

Remarks: FY 92/93 deliveries are delayed due to a test failure.

Production rates are provided by the Army and include other services' buys.

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UNCLASSIFIED

			BUDGET	TITEM JUST	TFICATION	SHEET				DATE:			
				P-4	10						Februa	ry 1998	
APPROPRIATION/BU								P-1 ITEM NO	MENCLATURE				
PROCUREMENT	OF AMMUN	NITION,	NAVY & MA	ARINE COR	PS				•		D TAKE OF	F) (Y1Q7)	
Program Element for (Code B Items:							Other Related	l Program Elem	nents			
	Prior Years	ID Code	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total	
QUANTITY COST													
(In Millions)	2.0**	Α	\$4.8	\$5.4	\$4.4	\$3.9	\$5.0	\$5.0	\$4.9	\$5.0	Continuing	Continuing	
Product Improve **Reflects only appropriations.	ment: Fund	ls reque:	sted for the	Product Imp	rovement Pi	ogram (PIP)) support Mi	K 117 design	verification/		Ū	curement, Na	avy (OPN)
NAVY RESERVE *Less than \$50K			<u>FY96</u> \$0.1	FY97 \$0.1	<u>FY98</u> \$0.1	<u>FY99</u> \$0.0 *	<u>FY00</u> \$0.1	<u>FY01</u> \$0.1	FY02 \$0.1	FY03 \$0.1			
						P-1 SHOPPI	NG LIST		CLASSIFICAT	TON:			

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ITEM NO. 10 PAGE NO. 1

DD Form 2454, JUN 86

	WEAPONS		EM COST / P-5	ANALYSIS	3			Weapon Sy	stem								DATE: Februa	ıry 1998
	PRIATION/BUDGET ACTIVITY							ID Code		P-1 ITEM NO	OMENCLATUR	RE/SUBHEAD	1				•	
PROC	UREMENT OF AMMUNITION, NAV	Y & N	IARINE (CORPS								ED TAKE	OFF) ()(407\				
	T T									JATO (JI	ET ASSIST	ED TAKE	OFF) (Y	1Q7)				
			TOTAL CO	IST IN THO	USANDS OF I	DOLLARS												
COST	ELEMENT OF COST	ID	Prior		FY 1996			FY 1997			FY 1998			FY 1999			FY 1995	
CODE		Code	Years**	0		T			T.10.	0 "	T 11 11 0 1	T . 10 .	0 "			0 "		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cos
27040	MK 117 MOD O ROCKET MOTOR	Α	1,270	1,189	3175.78	3,926 *	1,396	3272.21	4,568	933	3323.04	3,100	601	3380.00	2,031			
	MK 125 RATO (H311)	Α	485	-	-	-	-	_	-	82	3437.00		206	3495.00				
	, ,																	
	Integrated Logistics Support		44			60			50			60			60			
	Production Engineering Support		250			404			445			414			451			
Q7850	Product Improvement Program		-			438			336			557			630			
	*Price includes \$150K to expedite of	leliver	ies. (Thi	s is not n	art of the u	init cost.)												
	**Reflects only FY 95 funding. Prio						Weapons	Procurem	ent. Navv i	(WPN) and	d Other Pro	curement.	Navy (O	i PN) appro	opriations.			
													, , ,	/ -]			
			0.045			4.000			F 000			4.445			0.000			
	 W 2446, JUN 86	D 4 6::	2,049 OPPING LIS	-		4,828			5,399			4,412			3,893 CLASSIFICA			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST
ITEM NO. 10 PAGE NO. 2

UNCLASSIFIED

UDGET PROCURE	MENT HISTO	RY AND PL	ANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
									February 19	98
APPROPRIATION/BUDGE					C. P-1 ITEM NON	IENCLATURE			SUBHEAD	
ROCUREMENT OF	AMMUNITIO	N, NAVY &	MARINE CORPS						Y1	Q7
						SSISTED TAKE OFF)				
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILAE
7040 MK 117 JATO R	OCKET MOTO	DR (H341)								
FY 97	1,396	3272.21	NAVAIR	N/A	PO	NSWC IH (IH, MD)	Apr-97	Apr-98	YES	
FY 98	933	3323.04	NAVAIR	N/A	PO	UNKNOWN	Apr-98	Apr-99	YES	
FY 99	601	3380.00	NAVAIR	N/A	PO	UNKNOWN	Apr-99	May-00	YES	
7050 MK 125 RATO (H311)									
FY 94	452	3278.00	NSWC IH	Mar-95	C/FP	UNIVERSAL PROP.	Jun-95	Oct-97	YES	
FY 95	148	3278.00	NSWC IH	Mar-95	C/FP	UNIVERSAL PROP.	Jun-95	Jun-98	YES	
FY 98	82	3437.00	NSWC IH	Jan-98	C/FP	UNKNOWN	Apr-98	Apr-99	YES	
FY 99	206	3495.00	NSWC IH	Jan-99	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
. REMARKS										

P-1 SHOPPING LIST ITEM NO. 10 PAGE NO. 3 DD Form 2446-1, JUL 87

FY 1998/99 BUDGET PRODU			EDULI	E, P-2	1												DATE						y 19						
APPROPRIATION/BUDGET A	CTIVITY	Y										Wea	apor	า Sys	tem		P-1	ITEN	ΛN	OME	NC	LAT	URE	=					
PROCUREMENT OF AMMUN	IITION, I	NAVY	& MA	RINE	CORF	PS														JA	TO	S							
						Pro	duct	tion I	Rate	;				Prod	cure	mei	nt Le	adtir	nes										
		Mai	nufact	urer's							AL	T Pr	rior	AL	ΓAf	ter	I	nitial		R	eord	ler					Un	it of	
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MK 117 (H341)	NSW	/C Ind	ian He	ad, M	D	20.8	83	3.3	16	6.7					6			12						18			EΑ	СН	
1																													
MK 125 (H311)	UPC	O, Ph	oenix,	AZ		41.7	12	5.0	37	5.0					6			12						18			EA	СН	
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ITEM / MANUFACTURER	F	S	Q	D	В	1997					. (CALE	NDAF	YEAR	1998	8						CA	LEND	AR Y	EAR 19	99			
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						T V	С	Ν	В	R	R	Υ	N	L	G	Р	Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	1 -
Q7040-MK 117 (H341)																													
NSWC IHD	97	N	1396	0	1396						480			480			436												0
NSWC IHD	98	N	933	0	933						A			400			730						467						466
NSWC IHD	99	N	601	0	601						, ,												A						601
Q7050-MK 125 RATO (H311)																													
UPCO UPCO	94	N	452	0	452	200 200	52																						
UPCO	95	N	148	0	148	200 200	02						148 *																0
UNK	98	N	82	0	82						Α												82						0
UNK	99	N	206	0	206						,,												A						206
									FISC	CAL Y	EAR 2	2000									FISC	AL Y	EAR :	2001					
ITEM / MANUFACTURER	F	S	Q	D	В	1999					(CALEN	NDAR	YEAR	200	0						CA	LEND	AR Y	EAR 20	001			
	Υ	V	T	E	Α	O N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	B A
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Q7040-MK 117 (H341)		1	1					<u> </u>	_	.,		•	. •	\vdash	_	-		•			_	<u> </u>	Ë			Ē	_	-	一
NSWC IHD	98	N	933	467	466	466																							0
NSWC IHD	99	N	601	0	601							301					300												0
Q7050-MK 125 RATO (H311)																													
UNK	99	N	206	0	206						103						103												0
Remarks: * Cabadula alippaga																							<u> </u>						ட

* Schedule slippage for the FY95 MK 125 RATO is due to failure of Lot acceptance testing. Engineering investigation is currently on going. Delivery rates are larger than production rates because deliveries are made in batches.

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

NAVMAT FORM 7110.1	PROCUREMENT AN BUDGET I		ON, NAVY & MA STIFICATION SH		(DOD EXHIBIT	P-40)	FEBRUARY 19	98
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOM 5"/54 GUN AMN				SUBHEAD NO. BLIN: 025000	A1AC
	F	Y 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								
COST (In Millions \$)	1	15.7	49.1	21.9	39.5	31.4	35.6	37.3

ITEM DESCRIPTION/JUSTIFICATION:

This is a round of ammunition (separate loading ammunition) fired from cruiser and destroyer type combatant ships against air, surface, and shore targets. There are also numerous 5"/54 gun barrels located at schools and engineering test sites.

PROCUREMENT: Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.

<u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

<u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION	P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION	L	SUBHEAD NO. A1AC BLIN: 025000
RENOVATION COMPONENT will be those with the lowest as	<u>S:</u> Items purchased will be used to upgrade unserviceable rour sset readiness positions.	nds to ready-for-issue condition.	The rounds to be renovated
	e gauges and test equipment necessary to check critical dimens ensure proper mating of parts and subassemblies, correct inter		
NON-STANDARD ITEMS: Fu	unds support procurement of ammunition training aids and initial	procurement of required non ty	pe classified munition items.
All ammunition procured with t	these funds is procured through the Navy.		

APPROPRIA PROCURE	ATION EMENT AMMUNITION, NAVY & MARINE CORPS	5	PROCUREMEN	T PROGRAM - F	RESERVE COMP	ONENTS	(DOD EXHIBIT	P-1R)	FEBRUARY 199	98
BUDGET AC					P-1 ITEM NOME				SUBHEAD NO.	
1 NAVY A	MMUNITION	NARM CODE	025001		5"/54 GUN AMM	IUNITION			A1AC	
P-1 Line					FY	97	FY	´ 98	FY	´ 99
Item No.	Item Nomenclature		QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AC000	5"/54 GUN AMMUNITION				235	33				

APPROPRIA PROCURE	ATION EMENT AMMUNITION, NAVY & MARINE CO	RPS	WEAPONS SYS	STEM COST AN	ALYSIS		(DOD EXHIBIT P	?-5)	FEBRUARY 199	8
BUDGET AG					P-1 ITEM NOME				SUBHEAD NO.	
1 NAVY A	MMUNITION	NARM COD	E 025000		5"/54 GUN AMM	UNITION	T		A1AC	
Cost		ldent.			FY	97	FY	98	FY	99
Code	Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AC100										
	5"/54 VT NON-FRAG	D334			7157	5765				
	5"/54 PRIMER	N534			20000	479				
	5"/54 IMPROVED CONV. MUNITION	DICM					14328	31021		
	5"/54 PROJ HE MFF	MFFP							5469	8666
AC830	PRODUCTION ENGINEERING					2292		3575		3455
AC850	PRODUCT IMPROVEMENT					3350		3314		2650
AC893	RENOVATION COMPONENTS					3119		10469		6379
AC894	GAUGE REQUIREMENTS					505		542		538
AC895	NON-STANDARD ITEMS					155		160		165
	TOTAL					15665		49081		21853
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UNCLASSIFIED CLASSIFICATION

APPROPRI PROCUR	ATION EMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREME	ENT HISTORY & PL	ANNING			(DOD EXHIE	BIT P-5A)		FEBRUARY 19	998
BUDGET A	CTIVITY				P-1 ITEM NO	MENCLATUR	RE				SUBHEAD NO).
1 NAVY A	AMMUNITION	NARM CODE 025000			5"/54 GUN AN	MUNITION					A1AC	
			CONTRACT	P/R			DATE OF			SPECS	ARE SPECS	IF YES
COST	ELEMENT OF COST	CONTRACTOR AND	METHOD	CONTRACTED	RELEASE	AWARD	FIRST	QTY	UNIT	AVAIL	REVS	WHEN
CODE	FISCAL YEAR	ADDRESS	AND TYPE	BY	DATE	DATE	DELIVERY		COST	NOW/WHEN	REQUIRED	AVAIL
AC100												
	5"/54 IMPROVED CONV. N	MUNITION DICM										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Nov-97	Mar-98	Nov-99	14328	2165.06	YES	NO	
	5"/54 PROJ HE MFF MFF	P										
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Nov-98	Mar-99	Feb-01	5469	1584.49	NO	YES	Jul-98

NOTE: All items shown are priced with available GFM.

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Cost	Item/Mfr	Prg		S e	Prog	Acc		+	CY	97						Calenda	r Year	r 1998											Cal	endar \	Year 1	999											ndar Y	ear 200	0				Later
Code	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	Yr	/ M	r	Qty	Prior		Oct	No	v D	ec J	an Fe	b N	lar A			Jun	Jul	Aug	Sep	Oc	t No	ov De	3C	Jan	Feb	Mar	Apr		_		_	Aug	Sep	Oct	No	v De	ec ·	Jan F	eb	Mar	Apr		_	_	ıl A	ıg S	Sep	
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AC100	DICM - 5"/54 IMPROVED CC	NV. MUNI	TION																																														
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	TOTALS				14.3		14.3																													10.0	0 4.3	3											
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	CUREMENT AMMUNITION PROPERTY ACTIVITY OF THE PROPERTY OF THE P	N NA	/Y & I	MARII	NE CO	RPS														P-1 I	tem N	lomer	clature											FEE		ARY Subh						
_	/Y AMMUNITION																			5"/54	GUN	I AMN	IUNITIO	ON												A1A0						
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Cost Code	Item/Mfr	Prg Yr		Pr Q	ty Ad	c Ba	al	CY	00					Calendar Y	ear 200									Ca	lendar Y	ear 20	02									Calen	dar Yea	ar 2003				Later
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AC100	MFFP - 5"/54 PROJ HE MFF																																									
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NAVMAT FORM 7110.1		ON, NAVY & MA STIFICATION SH		(DOD EXHIBIT	P-40)	FEBRUARY 19	98
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOM 5"/62 CAL EXT		GUIDED MUNI		SUBHEAD NO. BLIN: 025300	A1AK
	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY							
COST (In Millions \$)	0	0	27.5	8.2	25.4	46.5	72.4

ITEM DESCRIPTION/JUSTIFICATION:

The Extended Range Guided Munition (ERGM) is a key element in providing a near term Naval Surface Fire Support (NSFS) capability. The NSFS mission is to support the U.S. and allied assault landing forces through increased range and accuracy.

<u>PROCUREMENT:</u> Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.

<u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

<u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

	DDOCLIDEMENT AMMUNITI	ON, NAVY & MARINE CORPS	2 T	
NAVMAT FORM 7110.1		STIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	•	SUBHEAD NO. A1AK
1 NAVY AMMUNITION			GE GUIDED MUNITION (ERGM)	BLIN: 025300
RENOVATION COMPONENT will be those with the lowest as		d to upgrade unserviceable rou	unds to ready-for-issue condition.	The rounds to be renovated
			nsions/parameters of ammunition arfacing between the ammunition a	
NON-STANDARD ITEMS: Fu	nds support procurement of am	munition training aids and initia	al procurement of required non typ	e classified munition items.
All ammunition procured with t	these funds is procured through	the Navy.		

APPROPRI PROCURI	ATION EMENT AMMUNITION, NAVY & MARINE COR	PS	WEAPONS SY	STEM COST AN	ALYSIS		(DOD EXHIBIT	P-5)	FEBRUARY 199	8
BUDGET A	CTIVITY				P-1 ITEM NOM	ENCLATURE			SUBHEAD NO.	
1 NAVY A	MMUNITION	NARM COD	E 025300		5"/62 CAL EXTI	ENDED RANGE	GUIDED MUNIT	ION (ERGM)	A1AK	
Cost		Ident.			F	Ý 97	F	Y 98	FY	99
Code	Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AK100										
	5"/62 EXT RANGE GUIDED MUNITION	ERGM							410	18450
	5"/62 CHARGE, ERGM	ECHG							420	840
	5"/62 SLUG	ESLG							10	50
AK831	PRODUCTION ENGINEERING F/ERGM									3000
AK832	QUALITY ASSURANCE F/ERGM									2836
AK833	ACCEPTANCE TESTING F/ERGM									2276
	TOTAL					O		O		27452
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UNCLASSIFIED CLASSIFICATION

APPROPR	HATION			_		•			•			
PROCUE	REMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREME	NT HISTORY & PL	ANNING			(DOD EXHIE	BIT P-5A)		FEBRUARY 1	998
		ı			1							
BUDGET A	ACTIVITY				P-1 ITEM NO	MENCLATUR	RE				SUBHEAD NO).
1 NAVY	AMMUNITION	NARM CODE 025300			5"/62 CAL EX	TENDED RA	NGE GUIDED	MUNITION			A1AK	
			CONTRACT	P/R			DATE OF			SPECS	ARE SPECS	IF YES
COST	ELEMENT OF COST	CONTRACTOR AND	METHOD	CONTRACTED	RELEASE	AWARD	FIRST	QTY	UNIT	AVAIL	REVS	WHEN
CODE	FISCAL YEAR	ADDRESS	AND TYPE	BY	DATE	DATE	DELIVERY		COST	NOW/WHEN	REQUIRED	AVAIL
	Ш							l l				<u>'</u>
AK100												
	5"/62 EXT RANGE GUIDEI	D MUNITION ERGM										
	FY 1999	UNKNOWN	CONTRACT	UNKNOWN	Nov-98	Apr-99	Oct-01	410	45000.00	NO	YES	Jul-98
	5"/62 CHG, f/ERGM ECHC	3										
	FY 1999	UNKNOWN	MIPR	UNKNOWN	Nov-98	Mar-99	Nov-00	420	2000.00	NO	YES	Jul-98
	5"/62 SLUG ESLG											
	FY 1999	UNKNOWN	MIPR	UNKNOWN	Nov-98	Mar-99	Nov-00	10	5000.00	NO	YES	Jul-98

NOTE: All items shown are priced with available GFM.

Approp	oriation										Produc	tion Sche	edule														Date							
	UREMENT AMMUNITION	NAV	Y & N	1ARIN	E COR	PS																					FEI	BRU	ARY	1998	3			
Budge	t Activity														P-1 Item I	Nomenclati	ure												Subh	ead No).			
	Y AMMUNITION														5"62 GUN	I AMMUNI	TION												A1AK					
			u s			Oct 1			Fiscal Year	2000						Fiscal Yea	r 2001										Fisca	l Year	2002					
Cost Code	Item/Mfr	Prg	/ e		Acc	Bal	CY 99			Calend	dar Year 2	000						Calen	dar Yea	r 2001		•							Calend	ar Year	2002			Later
Code		11	M r	Qiy	Prior	Due	Oct Nov	Dec .	Jan Feb Mar	Apr May	Jun .	Jul Aug	Sep	Oct Nov	Dec Jan	Feb Mar	Apr	May	Jun	Jul	Aug	Sep C	Oct I	Nov [Dec	Jan	Feb	Mar	Apr	May	Jun	Jul A	ug S	Sep
					2000	2000																												
AK100	ERGM - 5"/62 EXT RANGE GUIDI	ED MUN	IITION																															
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AK100	ECHG - 5"/62 CHARGE, ERGM						-																																						
	UNK	99	KN	N .4	NON	IE .4														.4																									
	TOTALS			.4		.4														.4																									
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1 Nav	y Ammunition						Dat 1	_				-	" I V	ear 2000								5"/62	2 GUN		MUNITION						- 1					Ei		A1Ał	^					_
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AK100	ESLG 5"/62 SLUG																																											
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	TOTALS				10.0		10.0)													10.0)																						
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NAVMAT FORM 7110.1	PROCUREMENT AMMUNITI BUDGET ITEM JUS	•		(DOD EXHIBIT	P-40)	FEBRUARY 19	98
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOM CIWS GUN AM				SUBHEAD NO. BLIN: 026000	A1AE
	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY							
COST (In Millions \$)	0.0	0.5	0.7	0.7	2.1	2.1	2.2

This ammunition is fired by the Phalanx Close-In Weapon System (CIWS) 20MM gatling gun for terminal defense against missiles and aircraft. At the end of FY 99 there will be CIWS systems installed on the following ship types: carriers, cruisers, destroyers, frigates, fast combat support (AOE), amphibious command (LCC), amphibious assault (LHA) and (LPH), amphibious transport dock (LPD), landing ship dock (LSD), and high endurance cutters (WHEC). Guns will also be located at designated school commands and engineering test sites.

PROCUREMENT: Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.

<u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

<u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

	PROCUREMENT AMMUNITION	ON, NAVY & MARINE CORPS		
NAVMAT FORM 7110.1	BUDGET ITEM JUS		(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOMENCLATURE CIWS GUN AMMUNITION		SUBHEAD NO. A1AE BLIN: 026000
	S: Items purchased will be used e lowest asset readiness position		nds to ready-for-issue condition.	The specific rounds to be
			sions/parameters of ammunition facing between the ammunition	
NON-STANDARD ITEMS: Fu	nds support procurement of am	munition training aids and initial	I procurement of required non ty	pe classified munition items.
All ammunition procured with t most recent SMCA standard/n		the Single Manager Convention	nal Ammunition (SMCA). Ammu	inition prices are based on the

			RESERVE COMP	ONENTS	(DOD EXHIBIT F	P-IR)	FEBRUARY 1998	3
NARM C	ODE 026001		P-1 ITEM NOME				SUBHEAD NO. A1AE	
·			FY	97	FY	98	FY	99
omenclature	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
ITION			0	0	660	4	1003	ı
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APPROPRIA PROCURI	ATION EMENT AMMUNITION, NAVY & MARINE C	ORPS	WEAPONS SY	STEM COST AN	ALYSIS		(DOD EXHIBIT F	P-5)	FEBRUARY 199	8
BUDGET AC	CTIVITY MMUNITION	NARM COE	DE 026000		P-1 ITEM NOMI	MUNITION			SUBHEAD NO. A1AE	
Cost		Ident.			FY	′ 97	FY	98	FY	99
Code	Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AE100										
	CTG. 20MM, PLASTIC DUMMY	AA20					64200	353	98550	559
AE830	PRODUCTION ENGINEERING							104		101
AE895	NON-STANDARD ITEMS									
	TOTAL					0		457		660

APPROPRI PROCUR	IATION EMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREME	NT HISTORY & PL	ANNING			(DOD EXHIB	BIT P-5A)		FEBRUARY 19	998
BUDGET A	CTIVITY				P-1 ITEM NO	MENCLATUR	RE				SUBHEAD NO	
1 NAVY A	AMMUNITION	NARM CODE 026000			CIWS GUN A	MMUNITION					A1AE	
			CONTRACT	P/R			DATE OF			SPECS	ARE SPECS	IF YES
COST	ELEMENT OF COST	CONTRACTOR AND	METHOD	CONTRACTED	RELEASE	AWARD	FIRST	QTY	UNIT	AVAIL	REVS	WHEN
CODE	FISCAL YEAR	ADDRESS	AND TYPE	BY	DATE	DATE	DELIVERY		COST	NOW/WHEN	REQUIRED	AVAIL
AE100												
	CTG. 20MM, PLASTIC DUI	MMY AA20										
	FY 1995	LCAAP	MIPR	ARDEC	Jun-96	Sep-96	Jun-98	272000	5.33	YES	NO	
	FY 1998	UNKNOWN	MIPR	ARDEC	Oct-97	Feb-98	Apr-99	64200	5.50	YES	NO	
	FY 1999	UNKNOWN	MIPR	ARDEC	Oct-98	Feb-99	Apr-00	98550	5.67	NO	YES	Jul-98

Appro	oriation											Produ	uction	Sche	dule																Da									
	UREMENT AMMUNITION	NAV	Y &	MA	RINE	CORP	S																								F	FEB	RU/	۱RY	199	8				
Budge	t Activity																	P-1 It	em N	lomenclatu	ire												S	Subhe	ead N	lo.				
1 NAV	Y AMMUNITION																	ciws	GUN	N AMMUNI	TION	I											A	A1AE						ļ
			U :	s		0	ct 1			Fiscal Ye	ar 1998									Fiscal Year	1999											Fiscal '	Year 20	000						
Cost Code	Item/Mfr	Prg Yr	/	е	Prog Qty	Acc	Bal	CY	7		Cale	ndar Yea	r 1998									Caler	ndar Ye	ear 199	9								(Calend	ar Yea	r 2000				Later
			М	r	,	Prior	Due	Oct No	Dec	Jan Feb M	ar Apr May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb Mar	Apr	May	Jun	Jul	Au	g Se	р Ос	t No	v De	c Ja	an F	eb I	Mar	Apr	May	Jun	Jul	Aug	Sep	
						1998	1998																																	,
AE100	AA20 - 20MM CTG., PLASTIC DUI	MMY																																						
	LCAAP	95	к	N	272.0	NONE	272.0					35.0	35.0	35.0	35.0	35.0	35.0	35.0	27.0																					
	UNK	98	к	N	64.2	NONE	64.2														25.0	25.0	14.2	:																
	UNK	99	к	N	98.6	NONE	98.6																											25.0	25.0	25.0	23.6			
	TOTALS				434.8		434.8					35.0	35.0	35.0	35.0	35.0	35.0	35.0	27.0		25.0	25.0	14.2	:										25.0	25.0	25.0	23.6			į į
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Λ	lanufacture's Name and Lo	ocatio	n	Γ		Min		1-8-	_	May	Reacl D+									Admin L	ead T	Time	Ма	anu-	Τ.	Total	7													J
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NAVMAT FORM 7110.1	PROCUREMENT AMMUNITI BUDGET ITEM JUS	•		(DOD EXHIBIT	P-40)	FEBRUARY 19	98
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NON 76MM GUN AN				SUBHEAD NO. BLIN: 026500	A1AF
	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY							
COST (In Millions \$)	2.7	3.4	3.8	4.9	4.6	4.7	4.8

The 76MM cartridge is a fixed round of ammunition for use in the MK 75 gun mount. It is used primarily against air targets but also may be used against surface and shore targets. The weapon system (MK 75 gun mount and MK 92 fire control system) has been designated for use on guided missile frigates (FFG), and United States Coast Guard (USCG) ships. At the end of FY 99, this weapon system will be installed on guided missile frigates (FFG) and USCG ships. There are also numerous 76MM barrels located at schools and engineering test sites.

PROCUREMENT: Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.

<u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

<u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS	(DOD EVALUE D. 40)	EEDDUADY 1000
NAVMAT FORM 7110.1	BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD NO. A1AF
1 NAVY AMMUNITION	76MM GUN AMMUNITION		BLIN: 026500
	S: Items purchased will be used to upgrade unserviceable round be lowest asset readiness positions.	ds to ready-for-issue condition.	The specific rounds to be
	gauges and test equipment necessary to check critical dimension ensure proper mating of parts and subassemblies, correct interface.		
NON-STANDARD ITEMS: Fur	nds support procurement of ammunition training aids and initial p	procurement of required non type	e classified munition items.
All ammunition procured with the most recent SMCA standard/no	nese funds is procured through the Single Manager Conventiona on-standard price list.	al Ammunition (SMCA). Ammun	ition prices are based on the

APPROPRIA PROCURE	TION MENT AMMUNITION, NAVY & MARINE CORP	S	PROCUREMEN	T PROGRAM - F	RESERVE COMP	ONENTS	(DOD EXHIBIT F	P-1R)	FEBRUARY 199	8
BUDGET AC	TIVITY MMUNITION	NARM CODE	026501		P-1 ITEM NOME 76MM GUN AMI		l		SUBHEAD NO. A1AF	
P-1 Line						97	FY	98		99
Item No.	Item Nomenclature		QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AF000	76MM GUN AMMUNITION				12	10	52	27	32	29
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										<u> </u>
										
										<u> </u>
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APPROPRIA PROCURE	TION MENT AMMUNITION, NAVY & MARINE C	CORPS	WEAPONS SYS	STEM COST AN	ALYSIS		(DOD EXHIBIT F	P-5)	FEBRUARY 199	8
BUDGET AC	TIVITY				P-1 ITEM NOME	NCLATURE			SUBHEAD NO.	
1 NAVY AM	MMUNITION	NARM COD	E 026500		76MM GUN AMI	MUNITION			A1AF	
Cost		Ident.			FY	97	FY	98	FY	99
Code	Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AF100										
	76MM BL+P	C062					5152	2684	4965	2840
	76MM MFF-HE	MFF2			1152	1000				
AF830	PRODUCTION ENGINEERING					667		417		565
AF850	PRODUCT IMPROVEMENT					535		202		209
AF893	RENOVATION COMPONENTS					207		1		77
AF894	GAUGE REQUIREMENTS					133		53		55
AF895	NON-STANDARD ITEMS					138		15		15
	TOTAL					2680		3372		3761
			+							

APPROPR PROCUF	IATION REMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREME	ENT HISTORY & PL	ANNING			(DOD EXHIE	BIT P-5A)		FEBRUARY 19	998
BUDGET A	ACTIVITY				P-1 ITEM NO	MENCLATUR	RE				SUBHEAD NO	
1 NAVY	AMMUNITION	NARM CODE 026500			76MM GUN A	MMUNITION	l				A1AF	
			CONTRACT	P/R			DATE OF			SPECS	ARE SPECS	IF YES
COST	ELEMENT OF COST	CONTRACTOR AND	METHOD	CONTRACTED	RELEASE	AWARD	FIRST	QTY	UNIT	AVAIL	REVS	WHEN
CODE	FISCAL YEAR	ADDRESS	AND TYPE	BY	DATE	DATE	DELIVERY		COST	NOW/WHEN	REQUIRED	AVAIL
AF100												
	76MM BL+P C062											
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Dec-97	May-98	Nov-99	5152	521.00	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Dec-98	May-99	Nov-00	4965	572.08	NO	YES	Jul-98

	oriation UREMENT AMMUNIT	ION NA	/Y 8	k MA	RINE C	ORPS	S									Produc	tion	Schedule														Date		JARY	′ 199	18				
Budget	t Activity																			P-1 Ite	m No	omenclatu	re											Subh		Ю.				
1 NAV	Y AMMUNITION																			76MM (I AMMUNI												A1AF	-					
Cost		Pro	U	s	Prog	Oct						Fisca	l Year 1									Fiscal Year										Fisc	al Year							
Code	Item/Mfr	Prg Yr		e r	Qty	Acc	Bal		CY 97	_						lar Year 1							Ca	lendar	r Year 1999										dar Yea					Later
		-	IVI			Prior	Due	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug Sep	Oct Nov	Dec J	Jan	Feb Mar	Apr Ma	ay J	Jun Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
AF100	C062 - 76MM BL&P				,	1998	1998																																	
	UNK	98		N			5.2																						5.2											
	UNK	99	К	N	5.0		5.0																																	5.0
	TOTALS				10.2		10.2																						5.2											5.0
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CAAA							12600		2	5000		50	0000									1-Oct	1-Oct		time	1-	Oct													
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	oriation UREMENT AMMUNIT	TION NA	/Y &	MA	RINE (CORP	s								Production	n Schedul	е										Date FE		ARY	1998	8				
Budge	t Activity Y AMMUNITION																		Nomenclatu UN AMMUN										Subhe A1AF	ad N	0.				
			U	s	_ [Oc	t 1					Fiscal `	ear 200	1					Fiscal Year	r 2002							Fisca	al Year 2	2003						
Cost Code	Item/Mfr	Prg Yr	/	е	Prog Qty	Acc	Bal		CY 00					Caler	dar Year 200	1				Caler	ndar Year 2002								Calenda	ar Year	2003			La	ater
			М	r	,	Prior	Due	Oct	Nov	Dec	Jan	Feb I	Mar A	pr May	Jun Ju	Aug Se	p Oct No	ov Dec Ja	Feb Mar	Apr May	Jun Jul	Aug Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul /	Aug S	ер	
						2001	2001																												
AF100	C062 - 76MM BL&P																																		
	UNK	98	к	N	5.2	5.2																													
	UNK	99	к	N	5.0		5.0		5.0																										
	TOTALS				10.2	5.2	5.0		5.0																										
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N	lanufacture's Name a	nd Locati	on			Min Sust.			1-8-5			Max		D+	ea				Admin L Prior	ead Time After	Manu- facturing	Total after													
CAAA				\dashv			12600		2	5000		500	000						1-Oct	1-Oct	time	1-Oct													
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NAVMAT FORM 7110.1	PROCUREMENT AN BUDGET I		ION, NAVY & MA STIFICATION SH		(DOD EXHIBIT	P-40)	FEBRUARY 19	98
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOM OTHER SHIP (ION		SUBHEAD NO. BLIN: 027000	. A1AG
	F	Y 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								·
COST (In Millions \$)		4.0	4.4	4.5	5.3	4.6	5.4	5.6

This program provides ammunition (20MM through 84MM cartridges and rockets) in support of active Navy ships, and for active and reserve ashore warfare forces including mobile construction battalions (MCB), amphibious construction battalions (ACB), fleet combat readiness groups, inshore undersea warfare groups, and several other types of operational units.

PROCUREMENT: Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.

<u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

<u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

	PROCLIREMENT AMMINITION	ON, NAVY & MARINE CORPS		
NAVMAT FORM 7110.1		TIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE		SUBHEAD NO. A1AG
1 NAVY AMMUNITION		OTHER SHIP GUN AMMUNITI	ON	BLIN: 027000
	S: Items purchased will be use e lowest asset readiness position	d to upgrade unserviceable rour	nds to ready-for-issue condition.	The specific rounds to be
		ment necessary to check critical arts and subassemblies, correct	•	•
NON-STANDARD ITEMS: Fu	nds support procurement of am	munition training aids and initial	procurement of required non ty	pe classified munition items.
All ammunition procured with t most recent SMCA standard/n		the Single Manager Convention	nal Ammunition (SMCA). Ammu	inition prices are based on the

APPROPRIA PROCURE	ATION EMENT AMMUNITION, NAVY & MARINE CORPS	8	PROCUREMEN	IT PROGRAM - F	RESERVE COMP	ONENTS	(DOD EXHIBIT F	?-1R)	FEBRUARY 199	8
BUDGET AC	CTIVITY				P-1 ITEM NOME	NCLATURE	1		SUBHEAD NO.	
		NARM CODE	≣ 027001		OTHER SHIP G		N		A1AG	
P-1 Line		1	1		FY		FY		FY	99
Item No.	Item Nomenclature		QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AG000	OTHER SHIP GUN AMMUNITION				172	36	190	40	1326	46

APPROPRIA PROCURI	ATION EMENT AMMUNITION, NAVY & MARINE CO	DRPS	WEAPONS SY	STEM COST AN	ALYSIS		(DOD EXHIBIT F	P-5)	FEBRUARY 199	8
BUDGET A	CTIVITY				P-1 ITEM NOME	NCLATURE			SUBHEAD NO.	
	MMUNITION	NARM COD	E 027000		OTHER SHIP GI		N		A1AG	
Cost		Ident.			FY		FY	98	FY	99
Code	Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AG100										
	25MM CARTRIDGES									
	25MM, SAPHEI-T	A991							104995	2103
	40MM CARTRIDGES (GRENADE)									·
	40MM, BLANK, SALUTING	B650			14652	380			8532	718
	40MM, CS	BA05			4045	204				
	60MM CARTRIDGES									
	60MM, HE	B643					12672	1411	4096	430
	60MM, SMOKE, WP	B646							2379	533
	60MM, ILLUM	B647			7200	2906	4928	2535		
	PE/QA (SMCA)									198
AG830	PRODUCTION ENGINEERING					356		385		398
AG850	PRODUCT IMPROVEMENT					110		24		66
AG892	NON-STANDARD ITEMS					15		19		20
AG893	RENOVATION COMPONENTS					50				54
AG894	GAUGE REQUIREMENTS					25		27		28
	TOTAL					4046		4401		4548

APPROPR												
PROCUE	REMENT AMMUNITION, NA	AVY & MARINE CORPS	PROCUREMI	ENT HISTORY & PL	ANNING			(DOD EXHIE	BII P-5A)		FEBRUARY 1	998
BUDGET A	AMMUNITION NARM CODE 027000 OTHER SHIP GUN AMMUNITION CONTRACT P/R DATE OF DATE OF ELEMENT OF COST CONTRACTOR AND METHOD CONTRACTED RELEASE AWARD FIRST QTY UNIT										SUBHEAD NO).
1 NAVY	AMMUNITION	NARM CODE 027000			OTHER SHIP	GUN AMML	INITION				A1AG	
			CONTRACT	P/R			DATE OF			SPECS	ARE SPECS	IF YES
COST	ELEMENT OF COST	CONTRACTOR AND	METHOD	CONTRACTED	RELEASE	AWARD	FIRST	QTY	UNIT	AVAIL	REVS	WHEN
CODE	FISCAL YEAR	ADDRESS	AND TYPE	BY	DATE	DATE	DELIVERY		COST	NOW/WHEN	REQUIRED	AVAIL
10100	1	1	l					<u>I</u>			l .	
AG100	25MM CARTRIDGES											
	CTG, 25MM SAPHEI-T A	001										
	FY 1993	ALLIANT	MIPR	AMCCOM DRSMC	Oct-92	Jul-95	Jan-98	443361	16.27	YES	NO	
	FY 1994	ALLIANT	MIPR	AMCCOM DRSMC		Jul-95	Jun-98	306639	16.27		NO	
	FY 1995	ALLIANT	MIPR	AMCCOM DRSMC		Jan-97	Nov-98	108170	19.60		NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC		Jan-99	Aug-00	104995	20.03		YES	Jul-98
	40MM CARTRIDGES (GR	ENADE)										
	CTG, 40MM, BLANK, SAL	. (350 & 200 GRAMS) B650										
	FY 1996	MILAN AAP	MIPR	AMCCOM DRSMC	Feb-96	Jun-96	Sep-97	9000	89.13	YES	NO	
	FY 1997	MILAN AAP	MIPR	AMCCOM DRSMC	Oct-96	Jan-97	Feb-98	14652	25.95	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Nov-99	8532	84.20	NO	YES	Jul-98
	60MM CARTRIDGES											
	CTG. 60MM, HE B643											
	FY 1995	MILAN AAP	MIPR	AMCCOM DRSMC	Dec-94	Mar-95	Jan-98	25264	82.63	YES	NO	
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Jan-98	Oct-99	12672	111.37	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Oct-00	4096	104.86	NO	YES	Jul-98

APPROPR	IATION					•			•			
PROCUF	REMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREME	ENT HISTORY & PLA	ANNING			(DOD EXHIE	BIT P-5A)		FEBRUARY 19	998
BUDGET A	ACTIVITY				P-1 ITEM NO	MENCLATUR	RE				SUBHEAD NO	
1 NAVY	AMMUNITION	NARM CODE 027000			OTHER SHIP	GUN AMMU	INITION				A1AG	
			CONTRACT	P/R			DATE OF			SPECS	ARE SPECS	IF YES
COST	ELEMENT OF COST	CONTRACTOR AND	METHOD	CONTRACTED	RELEASE	AWARD	FIRST	QTY	UNIT	AVAIL	REVS	WHEN
CODE	FISCAL YEAR	ADDRESS	AND TYPE	BY	DATE	DATE	DELIVERY		COST	NOW/WHEN	REQUIRED	AVAIL
AG100	CONTINUED 60MM CARTRIDGES CTG. 60MM, SMOKE, WP FY 1993 FY 1995 FY 1999	B646 MILAN AAP PINE BLUFF AAP UNKNOWN	MIPR MIPR MIPR	AMCCOM DRSMC ARDEC ARDEC	Jan-93 Dec-94 Oct-98	Nov-93 Apr-95 Jan-99	Feb-98 Feb-98 Oct-00	12784 7888 2379	120.26 138.28 224.19	_	NO NO YES	Jul-98
	CTG. 60MM, ILLUM B647											
	FY 1993	PINE BLUFF AAP	MIPR	ARDEC	Dec-92	Mar-93	Jan-98	3216	244.98	YES	NO	
	FY 1995	PINE BLUFF AAP	MIPR	ARDEC	Mar-95	Sep-95	Mar-98	13056	372.11	YES	NO	
	FY 1996	PINE BLUFF AAP	MIPR	ARDEC	Feb-96	Jan-97	Aug-98	8688	444.48	YES	NO	
	FY 1997	PINE BLUFF AAP	MIPR	ARDEC	Oct-96	Feb-97	Oct-98	7200	403.56	YES	NO	
	FY 1998	UNKNOWN	MIPR	ARDEC	Oct-97	Apr-98	Oct-99	4928	514.29	YES	NO	

NAVMAT FORM 7110.1	PROCUREMENT A BUDGET		ON, NAVY & MA TIFICATION SH		(DOD EXHIBIT	P-40)	FEBRUARY 19	98
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOM SMALL ARMS A		PARTY AMMUN		SUBHEAD NO. BLIN: 033500	A1AH
		FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY								
COST (In Millions \$)		3.1	7.6	7.8	8.1	8.9	9.1	9.3

This program provides ammunition in support of active Navy ships and for active and reserve ashore warfare forces including: mobile construction battalions (MCB), amphibious construction battalions (ACB), fleet combat readiness groups, inshore undersea warfare groups, and several other types of operational units.

PROCUREMENT: Funds are required to procure components, load and assemble complete rounds, and conduct acceptance tests.

<u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

<u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

	•			•
	PROCUREMENT AMMUNIT	ION, NAVY & MARINE CORPS		
NAVMAT FORM 7110.1	BUDGET ITEM JUS	STIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE		SUBHEAD NO. A1AH
1 NAVY AMMUNITION		SMALL ARMS AND LANDING	DARTY AMMI INITION	BLIN: 033500
I NAV F AMMUNITION		SWALL ARWS AND LANDING	PARTY AMMUNITION	DLIN. 033300
RENOVATION COMPONENT will be those with the lowest as	•	ed to upgrade unserviceable rour	nds to ready-for-issue condition.	The rounds to be renovated
		ecessary to check critical dimens and subassemblies, correct interf		
NON-STANDARD ITEMS: Fu	inds support procurement of an	nmunition training aids and initial	procurement of required non ty	pe classified munition items.
All ammunition procured with t standard price list has been us		n the Single Manager Convention	al Ammunition (SMCA). The m	ost recent SMCA standard/non

APPROPRIA PROCURE	TION MENT AMMUNITION, NAVY & MARINE CORPS	S PR	OCUREMEN'	T PROGRAM - F	RESERVE COMP	ONENTS	(DOD EXHIBIT F	P-1R)	FEBRUARY 199	8
BUDGET AC	TIVITY	<u>'</u>			P-1 ITEM NOME	NCLATURE	l		SUBHEAD NO.	
	MMUNITION	NARM CODE 03	3501				ARTY AMMUNITI	ON	A1AH	
P-1 Line						97	FY		FY	99
Item No.	Item Nomenclature		QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AH000	SMALL ARMS AND LANDING PARTY AMMUN	IITION			118593	23	193720	66	205939	69

APPROPRIA PROCURI	ATION EMENT AMMUNITION, NAVY & MARINE COR	RPS	WEAPONS SY	STEM COST AN	ALYSIS		(DOD EXHIBIT F	P-5)	FEBRUARY 199	8
BUDGET AG	CTIVITY MMUNITION	NARM COD	E 033500		P-1 ITEM NOME SMALL ARMS A		ARTY AMMUNITI		SUBHEAD NO. A1AH	
Cost		Ident.			FY	97	FY	98	FY	99
Code	Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AH100										
	SHOTGUN CARTRIDGES									
	CTG. 12 GA, NO.00	A011							286720	100
	7.62MM CARTRIDGES									
	CTG. 7.62MM, LKD, BALL & TRACER	A131					1260395	756		
	CTG. 7.62MM, BALL, LINKED M80	A143					1000000	560	1500000	630
	CTG. 7.62MM, DIM TRACE M80/M276	A257			447000	376	3500000	1925	2047500	799
	CTG. 7.62MM MATCH	AA11							600000	312
	9MM CARTRIDGES									
	CTG. 9MM, BALL	A363			11164000	1455	10000000	1500	10000000	1400
	CTG. 9MM, BLANK	TBA			7300	8				
	.45 CAL CARTRIDGES									
	CTG45 CAL, BALL, WADCUTTER	A470					220000	55	131200	30
	CTG45 CAL, BALL, M1911, MAT	A483			220000	42				
	SUBTOTAL PAGE 1					1881		4796		3271
			1							

APPROPRIA PROCURE	ATION EMENT AMMUNITION, NAVY & MARINE CO	PRPS	WEAPONS SY	STEM COST AN	ALYSIS		(DOD EXHIBIT F	P-5)	FEBRUARY 199	18
BUDGET AC	CTIVITY		<u> </u>		P-1 ITEM NOME	NCLATURE			SUBHEAD NO.	
1 NAVY A	MMUNITION	NARM COD	E 033500		SMALL ARMS A		ARTY AMMUNITI		A1AH	
Cost		Ident.			FY		FY		FY	99
Code	Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AH100	CONTINUED									
	.50 CAL CARTRIDGES									ĺ
	CTG50 CAL, LINKED, BALL	A555					400000	760		
	CTG50 CAL, LINKED & TRACER	A557			229200	548				
	CTG50 CAL, MK 211, APIT, M2	AA06					364600	1127	1083500	3446
	PE/QA (SMCA)									23
AH830	PRODUCTION ENGINEERING					263		400		280
AH850	PRODUCT IMPROVEMENT					106		110		115
AH895	NON-STANDARD ITEMS					109		219		227
AH350	MATCH AMMO					153		175		182
	SUBTOTAL PAGE 2					1179		2791		448
	TOTAL					3060		7587		7752
										<u> </u>
										İ

APPROPR PROCUE	CIATION REMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREME	ENT HISTORY & PL	ANNING			(DOD EXHIE	BIT P-5A)		FEBRUARY 1	998
BUDGET A	ACTIVITY AMMUNITION	NARM CODE 033500	1		P-1 ITEM NO SMALL ARM		RE ING PARTY A	I MMUNITION			SUBHEAD NO).
COST	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AH100	SHOTGUN CARTRIDGES CTG. 12 GA. NO. 00 A011											
	FY 1999 7.62MM CARTRIDGES CTG. 7.62MM, LKD, BALL FY 1998	UNKNOWN & TRACER A131 UNKNOWN	MIPR MIPR	AMCCOM DRSMC		Feb-99 Dec-97	Aug-99 Nov-98	286720 1260395	0.35		YES	Jul-98
	CTG. 7.62MM BALL, LINKI FY 1998 FY 1999	ED M80 A143 UNKNOWN UNKNOWN	MIPR MIPR	AMCCOM DRSMC		Dec-97 Dec-98	Nov-98 Nov-99	1000000 1500000	0.56 0.42	_	NO YES	Jul-98
	CTG. 7.62MM DIM TRACE FY 1997 FY 1998 FY 1999	M80/M276 A257 LCAAP UNKNOWN UNKNOWN	MIPR MIPR MIPR	AMCCOM DRSMC AMCCOM DRSMC AMCCOM DRSMC	Oct-97	Dec-96 Dec-97 Dec-98	Nov-97 Nov-98 Nov-99	447000 3500000 2047500	0.84 0.55 0.39	YES	NO NO YES	Jul-98
	CTG. 7.62MM MATCH AA FY 1999	11 UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Dec-98	Nov-99	600000	0.52	NO	YES	Jul-98

APPROPR PROCUE	RIATION REMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREME	ENT HISTORY & PL	ANNING			(DOD EXHIB	BIT P-5A)		FEBRUARY 1	998
BUDGET A	ACTIVITY AMMUNITION	NARM CODE 033500			P-1 ITEM NO SMALL ARMS		RE ING PARTY A	.MMUNITION			SUBHEAD NO).
COST	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AH100	CONTINUED 9MM CARTRIDGES CTG. 9MM BALL A363											
	FY 1997	OLIN CORPORATION	MIPR	AMCCOM DRSMC	Oct-96	Feb-97	Aug-97	11164000	0.13	YES	NO	
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Aug-98	10000000	0.15	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Aug-99	10000000	0.14	NO	YES	Jul-98
	.45 CAL CARTRIDGES CTG45 CAL, BALL, WAL	OCUTTER, MG A470										
	FY 1998	UNKNOWN	COMM	NSWC CRANE	Oct-97	Feb-98	Aug-98	220000	0.25	YES	NO	
	FY 1999	UNKNOWN	COMM	NSWC CRANE	Oct-98	Feb-99	Aug-99	131200	0.23	NO	YES	Jul-98
	.50 CAL CARTRIDGES CTG50 CAL. LKD, BALL	AFFF										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Dec-97	Nov-98	400000	1.90	YES	NO	
	CTG50 CAL. MK 211, AF	PIT, M2 AA06										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Dec-97	Nov-98	364600	3.09	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Dec-98	Nov-99	1083500	3.18	NO	YES	Jul-98

	oriation UREMENT AMMUNIT	'ION NA	VY 8	& MA	RINE C	CORPS	s								ı	Productio	n Sche	dule													Date FE		IARY	199	18				
Budge	Activity																			P-1 Item	Nomencla	ture											Subh	ead N	Ю.				
1 NAV	Y AMMUNITION																			SMALL A	ARMS AND	LAN	IDING P	ARTY A	MML	OITINU	N						A1AF	ł					
0			U	s	D	Oct	t 1					Fiscal	l Year 1	998							Fiscal Ye	ear 1999	9								Fisc	al Year	2000						
Cost Code	Item/Mfr	Prg Yr		е	Prog Qty	Acc	Bal		CY 97					(alend	ar Year 199	8						Calend	dar Year 19	999								Calend	dar Yea	r 2000				Later
			М	r	,	Prior	Due	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Иау	Jun Jul	Aug	Sep	Oct Nov	Dec Jai	Feb Ma	ar Ap	pr May	Jun J	Jul /	Aug Se	р Ос	t Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
						1998	1998																																
AH100	A47045 CAL CTG.																																						
	UNK	98	М	N	.2	NONE	.2										.2																						
	UNK	99	М	N	.1	NONE	.1																			.1													
	TOTALS				.3		.3										.2									.1													
							Р	roduc	ction R	ates				D-	o la c					Proc	urement Le	ead Ti	ime					Rer	narks:										
N	lanufacture's Name a	nd Locati	on	Ī		Min			1-8-5			Max			ached D+	"					Admin	Lead	l Time	Manu	-	Total													
						Sust.									- '						Prior		After	facturir		after													
OLIN/\	VINCHESTER					50	00000		100	00000		5000	0000								1-Oct		1-Oct	time	\perp	1-Oct	╛												
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				_]													Reord	er (P	revious So	ource)		4	4		6		0												
				[P-1 Ite	em Sh	nopp List	Item No	o F	Page No	늬												
																							16			7													

	oriation UREMENT AMMUNITION	NAV	Υ&	MAF	RINE COR	PS								Production	n Schedule)										Date FEI	BRU	ARY	1998	}			
Budget	t Activity Y AMMUNITION																1	Nomenclatu RMS AND I		PARTY AMI	MUNITION				· ·			Subhe A1AH	ad No).			
			U :	s		Oct 1					Fiscal Y	'ear 199	8					Fiscal Year								Fisca	al Year 2	2000					
Cost Code	Item/Mfr	Prg	1	e	Prog Qty Acc	Bal		CY 97					Calen	dar Year 199	3				Caler	ndar Year 1999								Calenda	r Year 2	2000			Later
Code		l '' l	М	r	Prio	r Due	Oct	Nov	Dec	Jan	Feb M	Mar A	pr May	Jun Jul	Aug Sep	Oct Nov	Dec Jan	Feb Mar	Apr May	Jun Jul	Aug Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun .	Jul A	ug Se	р
					1998	1998																											
AH100	AA0650 CAL, MK 211, APIT, M	12																															
	UNK	98	М	N	.4 NON	E .4										.4																	
	UNK	99	м	N	1.1 NON	E 1.1																	1.1										
	TOTALS				1.5	1.5										.4							1.1										
			+																														
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			+																														
				L			Produc	ction R	ates			_	Reache	_{2d}			Procu	rement Lea				1	Rema	arks:									
N	lanufacture's Name and L	ocatio	on		Min Sus			1-8-5		N	Max		D+	Su				Admin L Prior	ead Time After	Manu- facturing	Total after												
CRANI	E NAVY			十		25000	0	60	00000		12000	000						1-Oct	1-Oct	time	1-Oct												
				十			1					\top			Initial			2	. 2	11	13	3											
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				\top			1					\neg						P-1 Item	n Shopp Lis	st Item No	Page No	1											
				\top			1					\top							16		8	1											
							-																										

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITI BUDGET ITEM JUS	•		(DOD EXHIBIT	P-40)	FEBRUARY 19	98
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOM PYROTECHNIC		LITION MATERI	AL	SUBHEAD NO. BLIN: 034000	A1AJ
	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03
QUANTITY							
COST (In Millions \$)	9.9	10.0	8.9	10.5	10.6	10.9	11.2

This program provides pyrotechnics and demolition materials for all active naval vessels, amphibious and mobile construction battalions, mobile diving and salvage units, cargo handling and port groups, naval security groups, fleet composite operational readiness groups (formerly beachjumper units (BJU's)) and explosive ordnance disposal groups/mobile units/detachments/teams. This program also provides materials to support the ship shock test program.

Pyrotechnics are required to support surface, air, ground, and underwater Navy requirements. These items consist of illumination, signalling, identification, and location devices using flare or smoke as the primary signalling agent. Pyrotechnics are used for training, combat exercises, submarine rescue and personnel search and rescue operations. Demolitions consist of explosive devices and accessories required for fleet units to perform training functions and operations. Fleet requirements are based upon CNO approved allowance lists for special needs (on a case by case basis) and worldwide fleet expenditures.

PROCUREMENT: Funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

<u>PRODUCTION ENGINEERING:</u> Funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORP BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1998
BUDGET ACTIVITY 1 NAVY AMMUNITION	P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEN		SUBHEAD NO. A1AJ BLIN: 034000
PRODUCT IMPROVEMENT:	Funds support engineering services and related efforts by the	producing contractor/manufa	acturing installation to extend the

<u>PRODUCT IMPROVEMENT:</u> Funds support engineering services and related efforts by the producing contractor/manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

<u>RENOVATION COMPONENTS:</u> Items purchased will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.

<u>GAUGE:</u> These funds procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.

NON-STANDARD ITEMS: Funds support procurement of ammunition training aids and initial procurement of required non type classified munition items.

All ammunition procured with these funds is procured through the Single Manager Conventional Ammunition (SMCA). The most recent SMCA standard/non-standard price list has been used in pricing the ammunition.

APPROPRIA PROCURE	TION MENT AMMUNITION, NAVY & MARINE CORPS	S PRO	OCUREMEN'	T PROGRAM - F	RESERVE COMP	ONENTS	(DOD EXHIBIT F	P-1R)	FEBRUARY 199	8
BUDGET AC	TIVITY	1			P-1 ITEM NOME	NCLATURE	l		SUBHEAD NO.	
	MMUNITION	NARM CODE 034	1001		PYROTECHNIC		TION		A1AJ	
P-1 Line					FY		FY		FY	99
Item No.	Item Nomenclature		QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AJ000	PYROTECHNICS AND DEMOLITION MATERI	AL			5708	79	947	82	4883	86

ATION EMENT AMMUNITION, NAVY & MARINE CORPS		WEAPONS SY	STEM COST AN	ALYSIS		(DOD EXHIBIT F	P-5)	FEBRUARY 199	8
CTIVITY		1		P-1 ITEM NOME	NCLATURE	I		SUBHEAD NO.	
MMUNITION	NARM COD	E 034000		PYROTECHNIC		TION		A1AJ	
	Ident.	1		FY		FY	98	FY	99
Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
SIGNALS									
SIGNALS SIGNAL KIT, PERS DISTRESS	L118					14790	449		
SIGNAL KIT, PERS DISTRESS SIGNAL, HAND FIRED KIT, VARIATION	L131					7140	142		
SIGNAL, ILLUM, MARINE, RED	L191					20688	2047	9480	920
SIGNAL, ILLUM, MARINE, YELLOW	L191					20688	2047	6744	655
SIGNAL, ILLUM, MARINE RED STA	L192					13344	959	6744	485
SIGNAL, SMOKE, MK 2, RED ROCKET	L201					9768	702	_	400
MARKER, LOCATION, SUB, MK 66/21, RED	L266					9700	702	1500	767
SIGNAL, SMOKE ILLUM, MARINE, GREEN	L269			615	353			1300	70
SIGNAL, SMOKE ILLUM, MARINE, DISTRESS	L283			30024	1165	1			
LIFE RAFT SIGNAL KITS	L564			4000	80				
				1333					
TRAINING DEVICES									
SIM, PROJ, AIRBURST, M74	L366			10000	216				
SIM, HAND GRENADE	L601			3000	10				
MINE, CHGS, AND CHG CONTAINERS									
CHG, ASSY, DEML, M183/37	M757			2500	1512				
CHG, DEML, SHAPED, FLEX-LIN (30)	ML10			414	9				
CHG, DEML, SHAPED, FLEX-LIN (60)	ML12			1008	42				
CHG, DEML, SHAPED, FLEX-LIN (225)	ML15			600	28				
CHG, DEML, SHAPED, FLEX-LIN (300)	ML16							1500	87
CHG, DEML, SHAPED, FLEX-LIN (400)	ML17			405	22				
CHG, DEML, SHAPED, FLEX-LIN (600)	ML19			702	31				
CHG, SPL CUT, TAPE, 63 GM/MT	MM24					10080	149		
CHG, BOOSTER, 20 GM, MK 140	MM30							20160	30
SUBTOTAL					3468		6495		294
, , ,		IN 140 INIVISO	IVINGO	IN 140	IN 140		3468		

APPROPRIA PROCURI	ATION EMENT AMMUNITION, NAVY & MARINE CORPS		WEAPONS SY	STEM COST AN	ALYSIS		(DOD EXHIBIT F	P-5)	FEBRUARY 199	98
BUDGET AG	CTIVITY				P-1 ITEM NOME	NCLATURE			SUBHEAD NO.	
	MMUNITION	NARM COD	E 034000		PYROTECHNIC		TION		A1AJ	
Cost		Ident.			FY			98		′ 99
Code	Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AJ100	CONTINUED									
7.0100	MINE, CHGS, AND CHG CONTAINERS CONT.									
	MINE NEUTRALIZATION CHARGE	MNC1			265	1417				
	DET CORD, CAPS, AND FUZES									
	DETONATING DELAY ELEMENT MK 27	DWAV			2000	75				
	DETONATING DELAY ELEMENT MK 28	DWAW			2000	75				
	DETONATING DELAY ELEMENT MK 29	DWAX			2000	75				
	DETONATING DELAY ELEMENT MK 30	DWAY			2000	75				
	LEAD PROTECTOR/ADAPTER MK 177	DWBY					10000	52		
	CORD, DETONATING, PRIMACORD, PETN	M456			300000	48			448000	72
	FUZE, BLASTING, TIME	M670			300000	42	248000	37	248000	
	SQUIB, ELECTRIC, MK 20 MOD 0	MG61							8000	180
	NON-ELEC DET W/IN-LINE INITIATOR	MMX2			18152	2021				
	NON-ELEC DET W/IN-LINE INITIATOR	MMX3					10000	395		
	STI FIRING DEVICE MK 54 (DUAL)	MN14			3060	300				
	ACOUSTIC FIRING SYSTEM	NZZZ							740	2896
	SUBTOTAL					4128		484		3180

APPROPRIA PROCURE	TION MENT AMMUNITION, NAVY & MARINE CORP	S	WEAPONS SYS	STEM COST AN	ALYSIS		(DOD EXHIBIT F	P-5)	FEBRUARY 199	08
BUDGET AC	TIVITY	1			P-1 ITEM NOME	NCLATURE			SUBHEAD NO.	
1 NAVY AN	MMUNITION	NARM COD	E 034000		PYROTECHNIC	S AND DEMOLI	TION		A1AJ	
Cost		Ident.			FY	97	FY	98	FY	99
Code	Element of Cost	Code	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AJ100	CONTINUED									
	CUTTERS AND CARTRIDGES									
	CTG. IMPULSE, MK 148/0	M663					100	88		
	CART PRESSURE	MW97					200			
	CTG. 50 CAL, MK 209	SS01					200	011	9996	352
	SHOCK TEST CHARGE									
	SHOCK TEST CHARGE, 10000 LB	6W57					10			
	BOOSTER CONT F/1200 LB SHOCK TEST	9W49					20	90		
	SHOCK TEST CHARGE, 60 LB	XW65	1		100	110			155	206
	PE/QA (SMCA)									65
AJ830	PRODUCTION ENGINEERING					825		1000		970
AJ850	PRODUCT IMPROVEMENT					950		800		900
AJ893	RENOVATION COMPONENTS					183		150		100
AJ894	GAUGE REQUIREMENTS					50		40		41
AJ895	NON-STANDARD ITEMS					204		175		180
	SUBTOTAL					2322		3016		2814
	TOTAL					9918		9995		8938

APPROPR PROCUI	RIATION REMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREMI	ENT HISTORY & PL	ANNING			(DOD EXHIE	BIT P-5A)		FEBRUARY 1	998
BUDGET /	ACTIVITY				P-1 ITEM NO	MENCLATU	RE				SUBHEAD NO).
1 NAVY	AMMUNITION	NARM CODE 034000			PYROTECHN	NICS AND DE	EMOLITION				A1AJ	
			CONTRACT	P/R			DATE OF			SPECS	ARE SPECS	IF YES
COST	ELEMENT OF COST	CONTRACTOR AND	METHOD	CONTRACTED	RELEASE	AWARD	FIRST	QTY	UNIT	AVAIL	REVS	WHEN
CODE	FISCAL YEAR	ADDRESS	AND TYPE	BY	DATE	DATE	DELIVERY		COST	NOW/WHEN	REQUIRED	AVAIL
AJ100	1	1	1							I	1	
A3 100	SIGNALS											
	SIGNAL KIT, PERS DISTR	RESS I 118										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Apr-98	May-99	14790	30.34	YES	NO	
		· · · · · · · · · · · · · · · · · · ·		, 2	00.0.	7 Apr. 00	may oo		00.01	0		
	SIGNAL, HAND FIRED KIT	Γ, VARIATION L131										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Apr-98	Aug-99	7140	19.90	YES	NO	
						·	· ·					
	SIGNAL, ILLUM, MARINE,	RED L191										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Apr-99	20688	98.97	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Apr-00	9480	97.08	NO	YES	Jul-98
	SIGNAL, ILLUM, MARINE,	YELLOW L192										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Apr-99	20688	98.97	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Apr-00	6744	97.08	NO	YES	Jul-98
	SIGNAL, ILLUM, MARINE,	RED STA L193										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Apr-99	13344	71.90	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Apr-00	6744	71.95	NO	YES	Jul-98
	SIGNAL, SMOKE, MK 2, R	RED ROCKET L201										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Apr-99	9768	71.90	YES	NO	
	MARKER, LOCATION, SU	B, MK 66/21, RED L266										
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Oct-00	1500	511.10	NO	YES	Jul-98
	MARKER, LOCATION, SU	B, MK 66/21, RED L266					·					

APPROPR PROCUI	RIATION REMENT AMMUNITION, NA	AVY & MARINE CORPS	PROCUREM	ENT HISTORY & PL	ANNING			(DOD EXHIE	BIT P-5A)		FEBRUARY 1	998
BUDGET A	ACTIVITY AMMUNITION	NARM CODE 034000			P-1 ITEM NO PYROTECHN						SUBHEAD NO).
COST	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AJ100	CONTINUED MINE, CHGS, AND CHG C CHG, DEML, SHAPED, FL FY 1999		MIPR	AMCCOM DRSMC	Oct-98	Apr-99	Sep-00	1500	57.86	NO	YES	Jul-98
	CHG, XPL CUT, TAPE, 63 FY 1998	GM/MT MM24 UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Apr-98	Jul-99	10080	14.79	YES	NO	
	CHG, BOOSTER, 20 GM, FY 1999	MK 140 MM30 UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Apr-99	Sep-00	20160	1.48	NO	YES	Jul-98
	DET CORD, CAPS, AND F LEAD PROTECTOR/ADAF FY 1998		CONTRACT	NSWC CRANE	Oct-97	Apr-98	Apr-99	10000	5.15	YES	NO	
	CORD, DETONATING, PR FY 1997 FY 1999	RIMACORD, PETN M456 UNKNOWN UNKNOWN	MIPR MIPR	AMCCOM DRSMC AMCCOM DRSMC		Jan-98 Apr-99	Nov-98 Nov-99	300000 448000	0.16 0.16		NO YES	Jul-98

APPROPR PROCUE	IATION REMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREME	ENT HISTORY & PL	ANNING			(DOD EXHIB	IT P-5A)		FEBRUARY 1	998
BUDGET A	ACTIVITY AMMUNITION	NARM CODE 034000	l		P-1 ITEM NO			l			SUBHEAD NO A1AJ).
COST	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AJ100	CONTINUED DET CORD, CAPS, AND F FUZE, BLASTING, TIME N FY 1997 FY 1998 FY 1999		MIPR MIPR MIPR	AMCCOM DRSMC AMCCOM DRSMC AMCCOM DRSMC	Oct-97	Sep-97 Jan-98 Jan-99	Aug-98 Aug-98 Aug-99	300000 248000 248000	0.14 0.15 0.13	YES	NO NO YES	Jul-98
	SQUIB, ELECTRIC, MK 20 FY 1995 FY 1999		CONTRACT	NSWC CRANE	Oct-94 Oct-98	Mar-97 Feb-98	Jun-98 Oct-99	6150 8000	20.00 22.47	YES	NO YES	Jul-98
	NON-ELEC DET W/IN-LINI FY 1998	E INITIATOR MMX3 UNKNOWN	CONTRACT	NSWC CRANE	Oct-97	Apr-98	Sep-99	10000	39.47	YES	NO	
	ACOUSTIC FIRING SYSTE FY 1999	EM NZZZ UNKNOWN	CONTRACT	NSWC CRANE	Oct-98	Feb-99	Oct-00	740	3913.51	NO	YES	Jul-98
	CUTTERS AND CARTRIDO CTG, IMPULSE, MK 148/0 FY 1998		CONTRACT	SPCC	Oct-97	Feb-98	Oct-99	100	879.12	YES	NO	

APPROPE PROCUE	RIATION REMENT AMMUNITION, NA	VY & MARINE CORPS	PROCUREMI	ENT HISTORY & PL	ANNING			(DOD EXHIE	BIT P-5A)		FEBRUARY 1	998
BUDGET /	ACTIVITY		1		P-1 ITEM NO	MENCLATUI	RE	•			SUBHEAD NO).
1 NAVY	AMMUNITION	NARM CODE 034000			PYROTECHN	IICS AND DE	EMOLITION				A1AJ	
			CONTRACT	P/R			DATE OF			SPECS	ARE SPECS	IF YES
COST	ELEMENT OF COST	CONTRACTOR AND	METHOD	CONTRACTED	RELEASE	AWARD	FIRST	QTY	UNIT	AVAIL	REVS	WHEN
CODE	FISCAL YEAR	ADDRESS	AND TYPE	BY	DATE	DATE	DELIVERY		COST	NOW/WHEN	REQUIRED	AVAIL
AJ100	CONTINUED CUTTERS AND CARTRID CART PRESSURE MW97		1							I		
	FY 1998	UNKNOWN	CONTRACT	SPCC	Oct-97	Jul-98	Jan-99	200	1569.12	YES	NO	
	CTG, 50 CAL, MK 209 SS	01										
	FY 1995	UNKNOWN	CONTRACT	NSWC IH	Dec-94	Sep-97	May-98	3374	24.00	YES	NO	
	FY 1996	UNKNOWN	CONTRACT	NSWC IH	Feb-96	Sep-97	May-98	1626	24.00	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Feb-99	Feb-00	9996	35.23	NO	YES	Jul-98
	SHOCK TEST CHARGES											
	SHOCK TEST CHARGE, 1	10000 LB 6W57										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Feb-98	Apr-99	10	35866.27	YES	NO	
	BOOSTER CONT F/1200	LB SHOCK TEST 9W49										
	FY 1998	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-97	Jan-98	Jun-99	20	4475.32	YES	NO	
	SHOCK TEST CHARGE, 6	60 LB XW65										
	FY 1996	CRANE AAA	MIPR	AMCCOM DRSMC	Apr-96	May-96	Feb-98	100	1427.85	YES	NO	
	FY 1997	CRANE AAA	MIPR	AMCCOM DRSMC	Jan-97	Feb-97	Sep-98	100	1099.93	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Dec-98	May-00	155	1328.69	NO	YES	Jul-98

	oriation UREMENT AMMUNITION	ON NA\	/Y &	MAI	RINE COR	PS								F	Production	on S	Schedule															Date		JARY	199	18				
	t Activity																			P-1 Ite	m N	omenclatu	ire												ead N	Ю.				
1 NAV	Y AMMUNITION						_													PYRO	TEC	HNICS AN	ID DEM	OLIT	TON MAT	ΓERI	AL							A1A	l					
Cost		Dra	U	s		Oct 1					Fiscal	Year 20										Fiscal Year										Fis	cal Yea							
Code	Item/Mfr	Prg Yr		e	Prog Qty Acc	Bal		CY 99					С	alenda	r Year 200	00							C	Calenda	ar Year 2001	1								Calen	dar Yea	r 2002				Later
			М	r	Prio	Due	Oct	Nov	Dec	Jan	Feb	Mar	Apr N	Лау	Jun Ju	ıl A	Aug Sep	Oct	Nov	Dec	Jan	Feb Mar	Apr 1	May	Jun Jul	Au	g Se	Oc	t Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
					2000	2000																																		
AJ100	NZZZ ACOUSTIC FIRING SYS	TEM																																						
	UNK	99	К	N	.7	.7												.1	.1	.1	.1	.1 .1	.1																	
	TOTALS				.7	.7												.1	.1	.1	.1	.1 .1	.1																	
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N	Manufacture's Name and	Locati	on	۲	Min		T					\dashv		chec	1	\vdash				-		Admin L			Manu-	Τ.	Total	┪												
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CLASSIFICATION:

DD Form 2454, JUN 86

	BUDGE	T ITEM	JUSTIFICA	TION SHEE	T			DATE:			
			P-40					Februa	ry 1998		
APPROPRIATION/BUD PROCUREMENT O			NAVY/MAR	INE CORPS		P-1 ITEM NO	MENCLATUR	E/LINE ITEM #	-		
BA-1: NAVY AMM	UNITION						MINE NEU	JTRALIZATI	ON DEVICE	S/035000	
Program Element for C	Code B Items	s:				OTHER RELA	ATED PROGR	M ELEMENTS			
	Prior Years	ID Code	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total
QUANTITY											
EQUIPMENT COST (In Millions) SPARES COST	N/A	Α	\$5.7	\$6.2	\$7.9	\$9.3	\$9.6	\$9.3	\$9.5	N/A	\$57.5
(In Millions)	N/A	Α	\$0.9	\$0.5	\$0.8	\$0.5	\$0.8	\$0.5	\$0.5	N/A	\$4.5

PROGRAM DESCRIPTION/JUSTIFICATION:

Mine Neutralization Devices are utilized in conjuction with minehunting systems to destroy mines that cannot be countered by normal minesweeping techniques. Once the mine is physically located, an explosive charge is placed in close proximity to neutralize the mine.

The Mine Neutralization System (MNS) was granted Approval for Full Rate Production in August 1991. The MNS is the primary weapon system for the MCM and MHC class ships. The Mine Neutralization Vehicle can drop a MK57 Destructor charge (MP-2) near a bottom mine to neutralize it. The vehicle is also capable of attaching a MK 26 Cable Cutter (MP-1) to a Moored Mine. MP-3 utilizes a modified MK 26 (MP-1) cable cutter and a MK57 Destructor (MP-2) together with floats to neutralize moored mines in place.

P-1 SHOPPING LIST ITEM NO. 18 PAGE NO. 1 CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

	WEAPONS	SYSTEM P-		ALYSIS				Weapon Sy	stem			DATE: February 19	208	
	PRIATION/BUDGET ACTIVITY rement of Ammunition, Navy/Mari BA-1: NAVY AMMUNITION					ID Code		NOMENCLA					990	
	BA-1: NAV F AMIMONITION		TOTAL CO	ST IN THO	USANDS O	F DOLLARS		MINE NEO	IKALIZAI	ION DEVI	CES/03500)		
COST	ELEMENT OF COST	ID Code					FY 1997			FY 1998			FY 1999	
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	MINE WARFARE, N852													
U4002	EXPLOSIVE LOADING							383			371			685
U4005	MK 57 BOMBLET	А				109	16.50	1,799	110	17.00	1,870	146	17.58	2,566
U4007	MP-3 DEVICE*	А				178	12.30	2,190	190	12.93	2,456	204	13.57	2,768
U4830	PRODUCTION ENGINEERING							618			736			765
U4840	QUALITY ASSURANCE							60			63			104
U4860	ACCEPTANCE TEST & EVALUATION							667			688			796
U4900	CONSULTING SERVICES													200
	-													
	*Kits will be procured to convert existing MP-1/MP-2 Items into MP-3 Items.													
TOTAL								5,717			6,184			7,884
			I			<u> </u>	1	٠,. ١،			3,104			.,504

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 18 PAGE NO. 2

UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCU	REME	NT HIST	ORY AND PLAN	NING EXHIBI	T (P-5A)	Weapon System		A. DATE		
					, ,	. ,			February 199	8
B. APPROPRIAT	TION/B	UDGET	ACTIVITY		C. P-1 ITE	M NOMENCLATURE	<u> </u>		SUBHEAD	
Procurement of A	\mmur	ition, Na	avy/Marine Corp	S						
BA-1: NAVY AM					MINE NEUTRA	ALIZATION DEVICES			71U4	
					CONTRACT			DATE OF	SPECS	IF NO
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	WHEN
FISCAL YEAR		COST (000)	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FISCAL YEAR (97)										
U4005/MK 57 BOMBLET	109	16.5	Indian Head, MD	N/A	C/FFP	TOLO INC Santa Ana, CA	5/97	12/97*	YES	
U4007/MP-3 DEVICE	178	12.3	Indian Head, MD	N/A	PO	NOC/IHDIV	5/97	11/98	YES	
FISCAL YEAR (98)										
U4005/MK 57 BOMBLET	110	17.0	NAVSEA	3/98	C/FFP	UNKNOWN	3/98	9/99*	YES	
U4007/MP-3 DEVICE	190	12.9	NAVSEA	3/98	C/FFP	UNKNOWN	3/98	9/99	YES	
FISCAL YEAR (99)										
U4005/MK 57 BOMBLET	146	17.6	NAVSEA	3/98	C/FFP	UNKNOWN	12/98	3/00*	YES	
U4007/MP-3 DEVICE	204	13.6	NAVSEA	3/98	C/FFP	UNKNOWN	12/98	3/00	YES	

D. REMARKS

Anticipated increased lead time in FY98 and FY99 when contract is competitively awarded.

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 18 PAGE NO. 3

UNCLASSIFIED

^{*} Delivery dates shown are for complete Destructor MK 57. Final delivery includes successful completion of lot acceptance testing, explosive loading of cases and production of Firing Devices MK 35 by NSWC, Indian Head Division.

FY 1998/99 BUDGET PRODU			DULE	E, P-2	1													DA	TE		F	ebr	uary	/ 19	98					
APPROPRIATION/BUDGET AC			\ \ /\/ /R	// A D II	NE C	^DI	26						Wea	apor	n Sy:	ster	n	P-1	ITE) F. /	١٥٢		
PROCUREMENT OF AMMU	MITIO	N, NA	4 V Y / IV	/IAKII	NE C	JKF		duot	ion	Rate					Dro	CUI	eme	nt I c	adti			NEU	IK	\LIZ	AH	ו אכ	DEVI	CES	<u> </u>	
	1	Man	nufactu	ırer's			PIO	duci	.1011	Raie	·	ΔΙ	T P	rior			fter		Initia			eord	lor				_	l Ir	nit of	:
Item		Name			n	M:	SR	1-8	8-5	M	4Χ		Oc			Oct			fg P			fg P			Tota	al			asur	
MK 57 BOMBLET		INC/S				10		15		25		0			3			18			12	· <u>9</u> ·		21			ΕA		200.	<u> </u>
	UNKI	NOWN																												
MP-3 DEVICE	NSW	C IHDI	V			20		30		40		0			3			18			12			21			EA	СН		
	_	NOWN										_																		
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MK57 BOMBLET/TOLO INC*	97	EA	109	0	109								Α							18	18	18	18	18	19					0
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MP-3 DEVICE/NOC/IHDIV	97	EA	178	0	178								Α														-			178
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Remarks: *Delivery dates shown are for complete Destructor MK 57. Final delivery includes successful completion of lot acceptance testing, explosive loading of cases and production of Firing Devices MK 35 by NSWC IHDIV.

DD Form 2445, JUL 87 Previous editions are obsolete

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*Delivery dates shown are for complete Destructor MK57. Final delivery includes successful completion of lot acceptance testing, explosive loading of call and production of Firing Devices MK35 by NSWC IHDIV.

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST